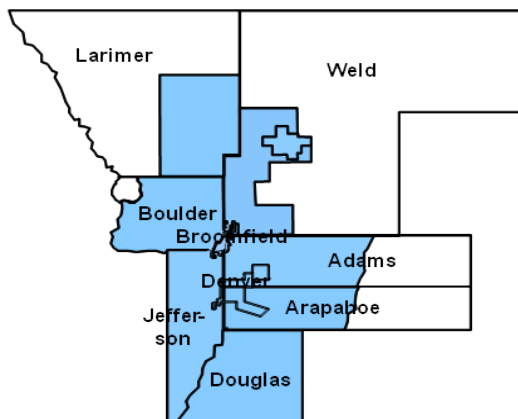
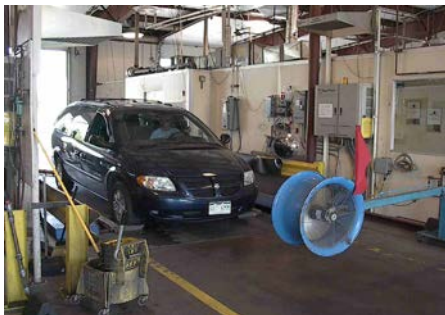




Colorado Department
of Public Health
and Environment

Air Pollution Control Division Mobile Sources Program

Automobile Inspection and Readjustment (AIR) Program Annual Report Calendar Year 2013



July 1, 2014

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Executive Summary

The State of Colorado operates a motor vehicle emissions inspection program in the nine-county Front Range area. This includes all or portions of Adams, Arapahoe, Boulder, Broomfield, Denver, Douglas, Jefferson, Larimer, and Weld counties.

The program's purpose is to improve air quality through the detection and repair of excessively emitting vehicles. Mobile source emissions constitute one of the larger categories of controllable emissions that contribute to summertime ozone concentrations. Lowering vehicle emissions by repairing dirty vehicles contributes to a cleaner motor vehicle fleet and improvement in the Colorado Front Range area's air quality.

The Automobile Inspection and Readjustment (AIR) Program consists of an "enhanced" Inspection and Maintenance (I/M) Program that uses a dynamometer-based I/M240 test for model year 1982 and newer light-duty gasoline-powered vehicles and a Two-Speed Idle Test (TSI) for 1981 and older light-duty and all heavy-duty gasoline-powered vehicles. The program also involves a visual inspection and gas cap pressure test to check for required emissions control equipment and evaporative emission leaks along with an inspection for visible smoke. The State enforces the AIR program through denial of vehicle registrations.

Vehicles are exempt from inspection for the first four model years. Newer model year vehicles that undergo ownership change during this period are also exempt from inspection if they have at least 12 months remaining in their four-year exemption period. As a result of these exemptions, approximately 375,000 vehicles were exempt from emissions inspection in 2013.

The I/M network consists of 18 Air Care Colorado emissions testing stations with 97 inspection lanes located throughout the nine-county program area. These centralized testing stations are allowed to inspect all gasoline-powered vehicles regardless of age. There were also three independent test-only stations that are only allowed to inspect 1981 and older gasoline-powered vehicles. Additionally, there were 23 fleet self-inspection stations throughout the program area licensed to test qualifying commercial and governmental fleet vehicles.

The State has developed a clean screen program, called "RapidScreen", to increase motorist convenience and limit the number of vehicles undergoing the traditional I/M inspection. RapidScreen uses Remote Sensing Devices (RSD) to measure tailpipe emissions while a vehicle drives past these devices on the road. There were a total of 22 RSD units operating throughout the nine-county program area in 2013. RSD units observed almost 234,000 unique vehicles that met clean screen program requirements.

There were approximately 894,000 initial I/M240 tests and 84,000 Two-Speed Idle (TSI) tests conducted throughout the I/M network in 2013. The I/M240 failure rate was 7.84% with the TSI test failure rate being 8.59 %. Including Clean Screen inspections, the overall failure rate was 6.38%.

The State estimates that the net cost of the total AIR program during 2013 was approximately \$43.9 million. Net cost is a combination of vehicle inspection costs, repair costs, vehicle registration fees, and estimated fuel savings. For ozone precursors, the State estimates the cost-effectiveness of the inspection program to be \$3,972 per ton removed. For carbon monoxide (CO) the cost effectiveness is estimated at \$784 per ton removed.

Introduction

The State of Colorado has maintained an automotive emissions inspection program since 1981. The purpose of this program is to identify and repair high-emitting vehicles. Repair of these vehicles results in lower mobile source emissions and contributes to improvement in the program area's air quality. Mobile sources remain a significant source of controllable emissions that contribute to Front Range summertime ozone levels.

The current Automobile Inspection and Readjustment (AIR) program was authorized by HB93-1340, and began operations on January 1, 1995. It consists of an "enhanced" Inspection and Maintenance (I/M) Program that uses a dynamometer-based I/M240 test for model year 1982 and newer light-duty gasoline-powered vehicles, and a Two-Speed Idle (TSI) test for 1981 and older light-duty and all heavy-duty gasoline-powered vehicles. As part of the program, a visual inspection and gas cap pressure test are conducted on all 1975 and newer vehicles.

The inspection cycle a vehicle receives depends on its age. Model year 1982 and newer vehicles are inspected biennially (every two years), while 1981 and older model year vehicles are inspected annually. For the new vehicles the inspection cycle begins after an exemption period. This allows the newest and cleanest model year vehicles to forgo periodic I/M inspection. The exemption period for new vehicles is four years. Vehicles sold during their exemption period are also exempt from inspection as long as they have a remaining 12 months left on this period. Program enforcement is through denial of vehicle registrations at the County Clerk level.

To further improve motorist convenience, the State administers a remote-sensing based clean screen program called "RapidScreen." RapidScreen monitors vehicle emissions while simultaneously photographing the license plate while a vehicle passes through infrared and ultraviolet beams of light. County Clerks notify owners of vehicles meeting the RapidScreen criteria that their vehicle has passed the inspection process and are excused from their next regularly scheduled I/M240 test.

The current AIR Program covers the nine-county Front Range area, including all or portions of Adams, Arapahoe, Boulder, Broomfield, Denver, Douglas, Jefferson, Larimer, and Weld counties. The latter two North Front Range counties began inspecting gasoline-powered motor vehicles since November 1, 2010.

The state contractor for the program is Envirotest Systems Holding Company (Envirotest). They operate and maintain all of the Air Care Colorado vehicle emissions stations, the RapidScreen vans, and handle all of the data and communications services. The Mobile Sources Program in the Air Pollution Control Division at the Colorado Department of Public Health and Environment (CDPHE) designs, administers, and evaluates the program. The Division of Motor Vehicles Emissions at the Colorado Department of Revenue (DOR) regulates the emissions testing facilities and inspectors working in the emissions program areas.

Inspection and Maintenance (I/M) Program

I/M Network

The I/M network consists of 18 Air Care Colorado emissions testing stations with a total of 97 inspection lanes, three independent test-only stations that inspect model year 1981 and older gasoline-powered vehicles, and 23 fleet stations that inspect qualifying commercial and governmental fleet vehicles. Fleet inspection stations are licensed to only test qualifying commercial and governmental fleet vehicles.

The RapidScreen program consists of 22 RSD units within the program area. The vans are rotated among 93 locations throughout the program area, with the primary locations being highway on and off ramps.

The State also staffs six Emissions Technical Centers (ETCs) throughout the AIR program area to help both the motoring public and the repair industry. These centers perform a variety of support functions for the Mobile Sources program, including technical support of vehicle inspection programs, and motor vehicle clean fuels programs.

New Program Developments

In December 2012 the Air Quality Control Commission approved several I/M program changes to be implemented January 2015. The two principal changes are expanding the current four model year exemption to seven model years and adding a pass/fail OBDII testing procedure for vehicles age 8 through 11 (two inspection cycles). The Mobile Sources Program staff is currently working on these and other minor changes to meet the January 2015 startup date.

In support of the upcoming emissions program changes, the Department launched a special “Mobile Source Emissions Control Strategies” study. This evaluation focuses on comparing Colorado’s I/M test results to Federal Test Procedure (FTP) results. A large part of this study is to verify that the On-Board Diagnostic (OBD) system is working properly when related to exhaust emissions measured by I/M240 and FTP test methods. The study began in early 2011, and will continue until the sample size reaches its goal (which is expected to be in 2015 or 2016). This study will assist in future refinement of the vehicle emissions program.

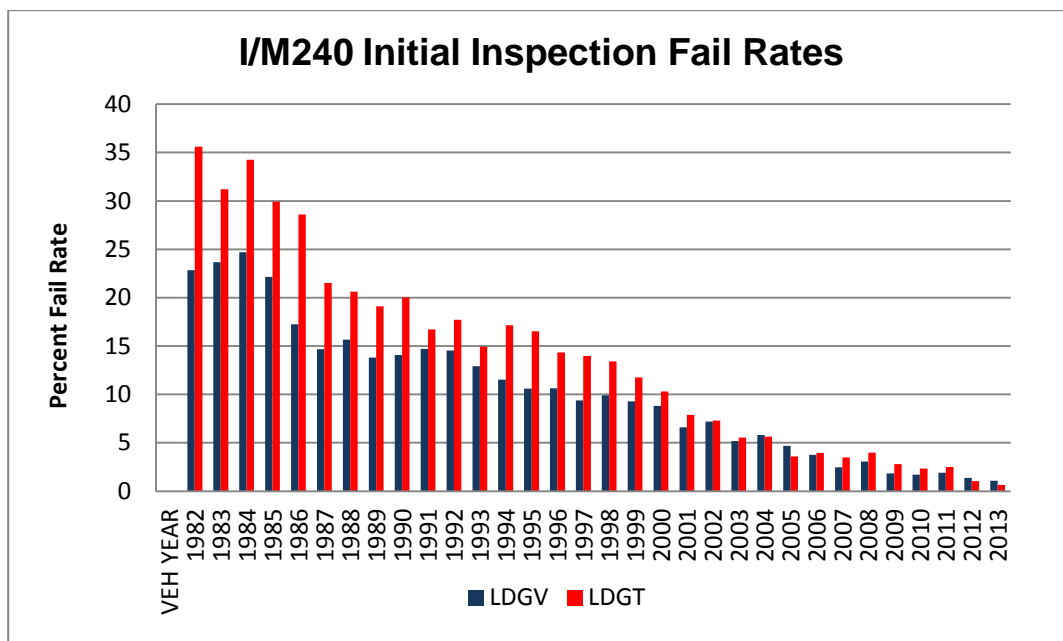
I/M240 Program Results

The I/M240 element of the program uses a 240 second loaded-mode dynamometer test cycle. This test is arguably the most accurate emissions test currently in use for replicating the Federal Test Procedure (FTP) that is used to certify new model year vehicles.

I/M240 – Initial Test Results

In 2013 there were a total of 894,306 initial I/M240 inspections conducted. The large majority of vehicles pass this initial I/M inspection. Vehicles that fail their initial test must undergo repairs and then return to an emissions testing station for additional testing. Vehicles can fail for a number of reasons, including missing or broken emission control equipment, excess exhaust emissions, or evaporative emissions. In 2013, 70,123 vehicles failed their initial I/M240 inspections resulting in an I/M240 initial failure rate of 7.84%. Of these, 34,020 failed for excess exhaust emissions resulting in an exhaust emissions failure rate of 3.80%. Figure 1 shows overall failure rates by model year. Overall failures consist of vehicles with excessive exhaust emissions, gas cap pressure failures, and/or visual equipment test failures.

Figure 1 - I/M240 Initial Inspection Fail Rates (1982-2013)

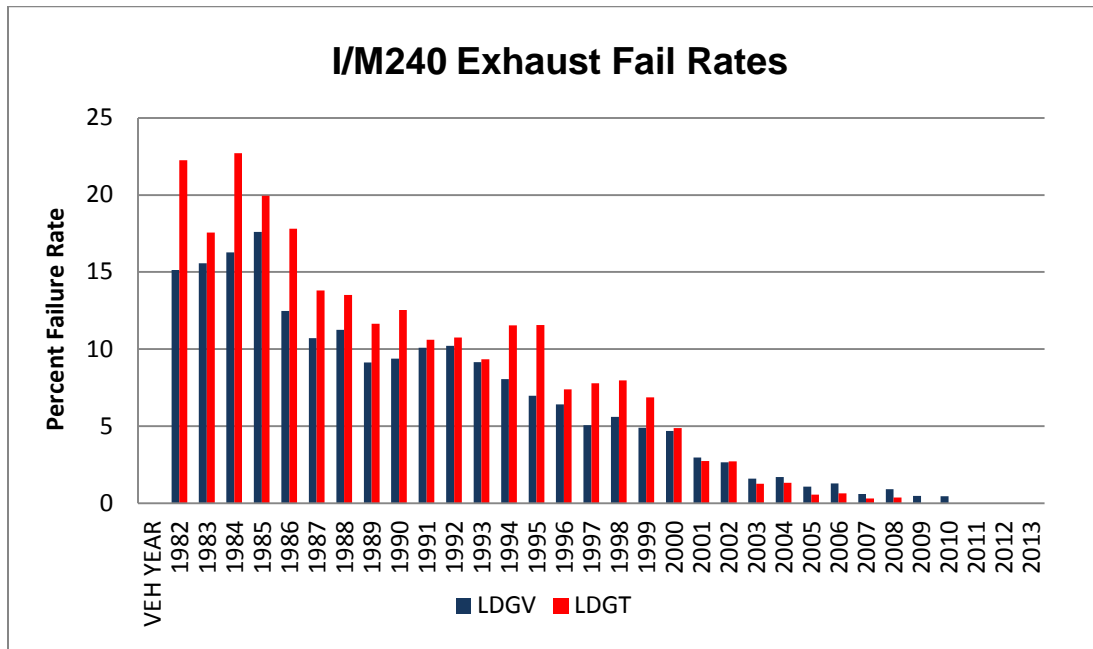


As Figure 1 shows, the highest failure rates are associated with the oldest model year vehicles. This contrasts with the failure rate for the newest model year vehicles, which are significantly lower (as expected). The newest vehicles experience failure rates of 1-3% even though they are subjected to the most stringent vehicle emissions standards.

Because of these low failure rates, and the high probability that they will pass an emissions test, the state exempts all new vehicles from periodic emissions inspections for the first four model years. As these charts show however, some motorists voluntarily have their exempt vehicles tested, allowing fail rates to be measured for these vehicles.

Figure 2 shows rates of vehicles that fail for excessive exhaust emissions, sorted by model year.

Figure 2 – I/M240 Exhaust Fail Rates (1982-2013)



Emissions failure rates (as shown in Figure 2) follow the same trends as overall I/M240 failure rates. Newer cars and trucks were much cleaner (as expected), with failure rates below 1.0% for the newest vehicles (model year 2005 and newer).

Figures 3, 4, and 5 show the initial exhaust emission results for hydrocarbons (HC), carbon monoxide (CO), and nitrogen oxides (NOx), respectively.

Figure 3 – Average Hydrocarbon (HC) Emissions by Model Year (1982-2013)

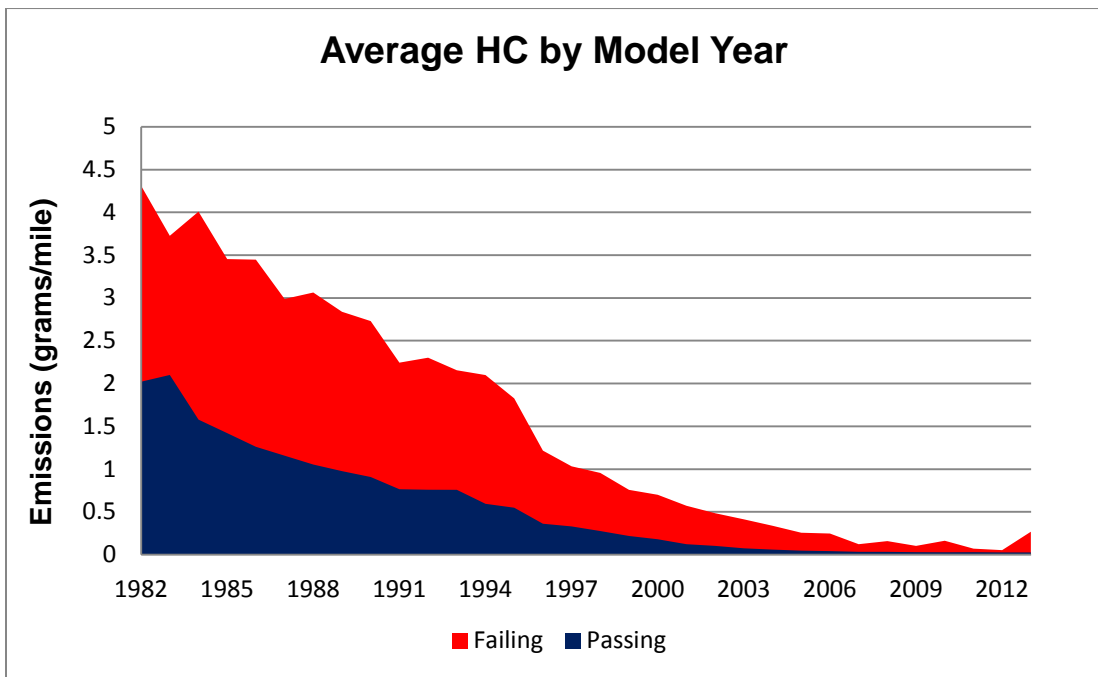


Figure 4 – Average Carbon Monoxide (CO) Emissions by Model Year (1982-2013)

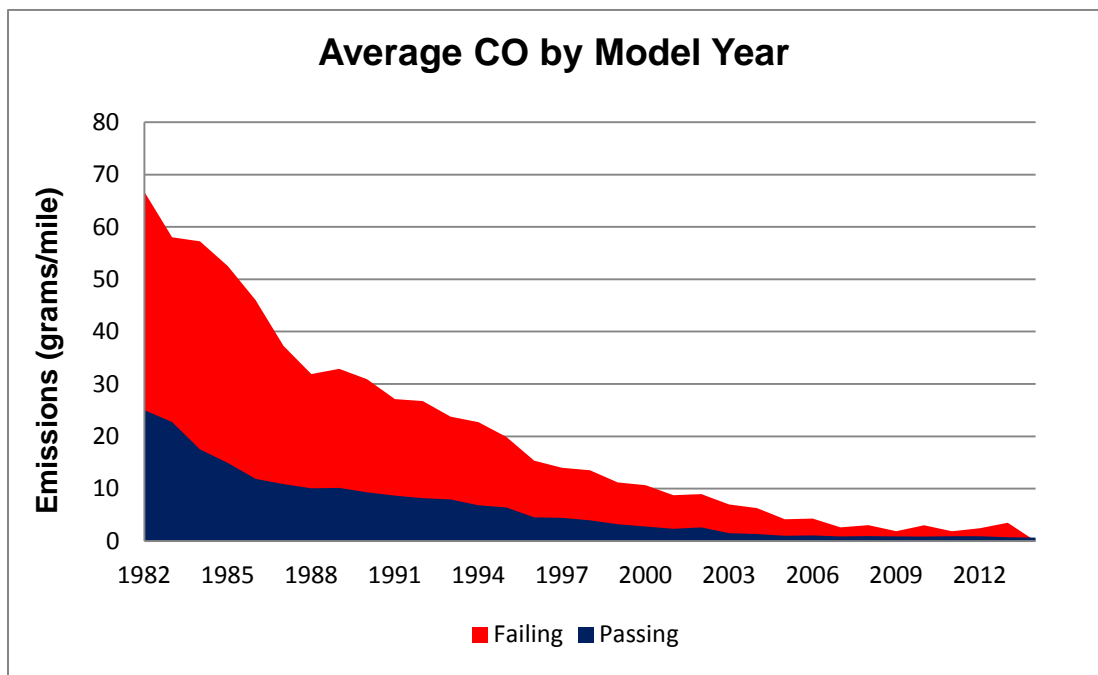
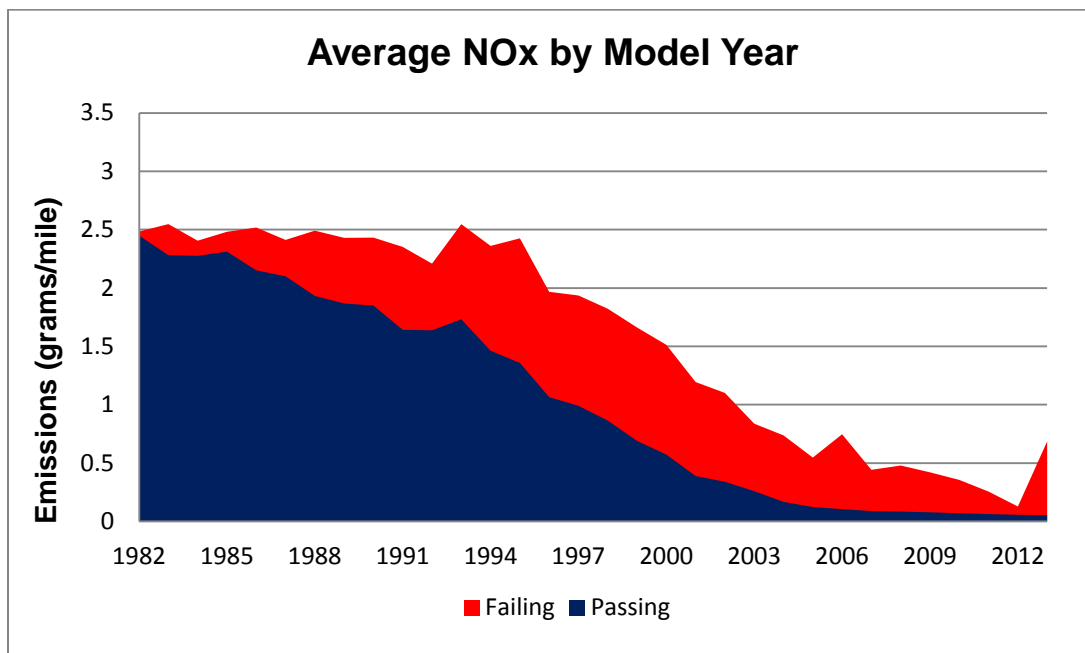


Figure 5 – Average Nitrogen Oxides (NOx) Emissions by Model Year (1982-2013)



Vehicles that fail for excessive exhaust emissions could fail for one of these criteria pollutants (HC, CO, or NOx) or any combination of them. Emission standards used to fail a vehicle are set for individual model years and vehicle types. All standards are set so that well-maintained vehicles will reasonably pass, with an adequate buffer to prevent marginal vehicles from falsely failing the inspection.

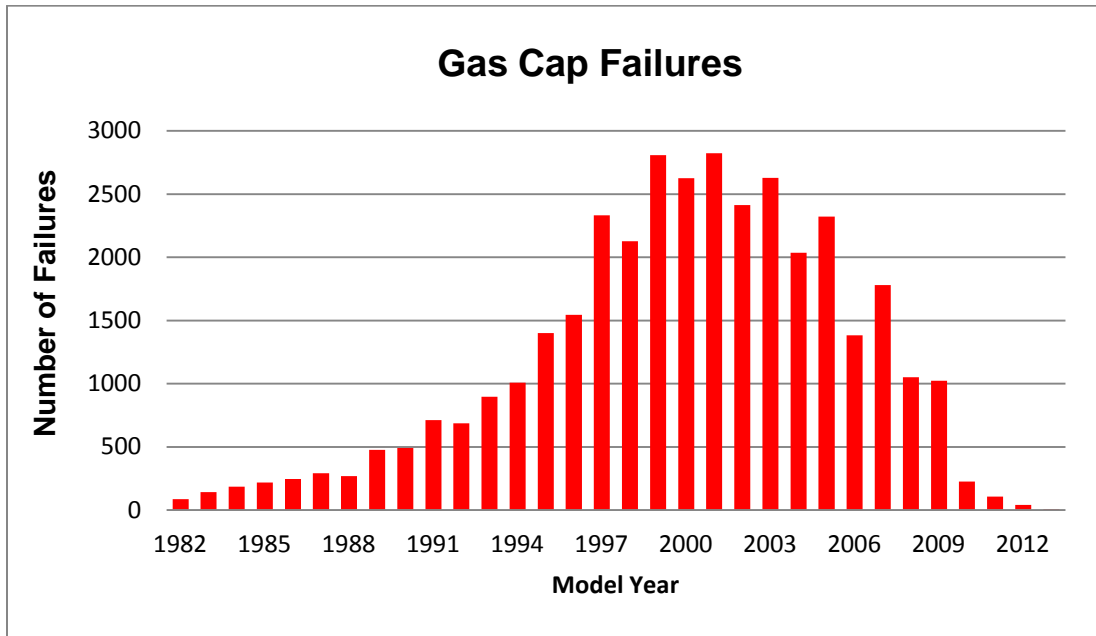
As these figures show, HC, CO, and NOx emissions are highest for the oldest model year vehicles. Average exhaust emissions drop significantly for newer model year vehicles (as expected), with the newest model year vehicles registering a small fraction of the average emissions of the oldest vehicles, in terms of both passing and failing emissions.

I/M240 – Gas Cap Pressure Inspection Results

Another element of the inspection program is a functional test of each vehicle's gas cap. Program inspectors install each gas cap on a device that pressurizes the cap and measures the decay of that pressure over time. If the pressure decay exceeds the standard, then the cap fails the test and the motorist is required to install a functional cap. There were 36,397 gas cap pressure failures in 2013.

The benefit of this test is the reduction of gasoline vapors venting to the atmosphere, which is a major factor in ground-level ozone formation. EPA's emissions model, MOVES, estimates that a functional gas cap program removes approximately a ton of hydrocarbons per day. The relative percent contribution of mobile source ozone precursors released through gas cap or fuel system failures is expected to increase in the future as tailpipe emissions continue to be reduced through fleet turnover and the introduction of advanced emissions control technologies. Figure 6 shows the number of gas cap pressure failures by model year.

Figure 6 – Gas Cap Failures by Model Year (1982-2013)



I/M240 – Visual Inspection Results

All 1982 and newer model year vehicles are subjected to a visual inspection of the secondary air injection system, catalytic converter, oxygen sensor, and gas cap. Vehicles model year 1996 and newer with On-Board Diagnostics (OBD) are subjected to a visual inspection only if the vehicle’s Malfunction Indicator Light (MIL, or “Check Engine” light) is commanded on, there is no communication during the OBD inspection, or there are unset system readiness monitors. In 2013, 1,399 vehicles failed for missing or improperly installed catalytic converter(s), 1,041 vehicles failed for missing or tampered air injection system, 967 vehicles failed for missing or tampered oxygen sensor(s), and 1,271 vehicles failed for a missing gas cap.

I/M240 – OBD-II Inspection Results

Every light-duty gasoline-powered vehicle built for sale in the USA since model year 1996 has special hardware and software installed called On-Board Diagnostics - Generation II (OBD-II). This system incorporates unique devices, statistical models, and procedures to *predict* (as opposed to measure) the vehicle’s emissions. Once the system identifies a problem, the vehicle’s MIL is turned on and a fault code is stored in the vehicle’s computer memory indicating the likely problem area. Currently, OBD evaluation for the Colorado AIR program is only for advisory purposes (i.e., not a pass/fail determination).

In 2013, there were 756,631 model year 1996 and newer vehicles inspected with matching I/M240 and OBD-II results. In this matched dataset, 18,116 (2.4%) vehicles failed for excess exhaust emissions. Based on EPA’s readiness criteria, 13,485 of these failed vehicles were classified as “ready” (i.e., enough of the vehicles’ OBD-II monitors were set to make a valid OBD pass/fail determination). Of these, 6,694 or 49.6% of the vehicles would have passed a

hypothetical OBD-II inspection test, though they are true exhaust emission failures and did fail their I/M240 tests.

I/M240 – Multiple Retests

Failing vehicles are required to undergo retesting after repairs are made. Of the vehicles that fail their initial I/M240 inspection, some will continue to fail after their initial repair. For calendar year 2013, 66,342 vehicles were given a first I/M240 retest. Of these vehicles, 16,027 failed again, resulting in a 24.16% I/M240 first retest failure rate. While vehicles undergoing retests after repair continue to show elevated failure rates compared to average vehicles undergoing initial testing, further analysis indicates that most vehicles that fail their initial I/M240 test are eventually repaired so that they pass their retest. Additional information on retest activity is available in the “Retest Frequency Report” in Appendix G.

I/M240 – Post-Repair Inspection Results

Vehicles that fail their emissions test generally have much higher emissions than vehicles that pass. The improved emissions from repairing these vehicles generate the program’s air quality benefit. Table 1 shows the average emissions from all vehicles that failed their initial I/M240 inspections and received a subsequent retest, average emissions from vehicles that passed a subsequent retest, and the percent reduction by pollutant and vehicle type.

Table 1 – Passed Retest Inspection Results (2013)

Vehicle Type	Failed Initial Inspection			Passed Retest			Percent Reduction		
	HC gpm	CO gpm	NOx gpm	HC gpm	CO gpm	NOx gpm	HC	CO	NOx
Cars	1.28	16.75	1.61	0.33	3.97	0.76	62.52	67.83	40.06
Trucks	1.67	20.95	2.17	0.50	5.88	1.16	55.37	60.07	33.55
TOTAL	1.49	19.05	1.92	0.42	5.03	0.98	58.16	63.20	35.96

I/M240 – Unresolved Vehicles

A concern to any inspection program is “unresolved vehicles” which fail an initial inspection, never receive a passing inspection, and disappear from the system. Approximately 14.6% of failing vehicles in 2013 did not receive a passing retest in that calendar year.

An investigation of unresolved vehicles was performed by the CDPHE in February 2010. In this analysis, staff looked at the long-term trend (over multiple years) for vehicles that were unresolved for calendar year 2007. The results of the analysis indicated that very few vehicles from this group continued to operate within the AIR program area after failing and never passing an I/M inspection.

The study found 8,258 unresolved vehicles in 2007. Of these vehicles 2,400 were eventually repaired and passed an I/M inspection or received a waiver in either 2008 or 2009. Of the remaining 5,858 unresolved vehicles, only 825 were seen by the RapidScreen remote sensing program at some

point during 2008 or 2009. This represents only 1.9% of all failing vehicles from 2007. Based on these results, the majority of unresolved vehicles appear to be either repaired, retired, moved out of the program area, or are no longer in operation. Only a limited fraction of these vehicles continue to operate, with the assumption being that most of the RapidScreen-observed unresolved vehicles in 2007 were actually seen early on in 2008.

Two-Speed Idle Test Results

In Colorado, the I/M Program requires non-exempt (i.e., vehicles not registered as collector series, street rods or farm vehicles) 1981 model year and older gasoline-powered vehicles to undergo annual Two-Speed Idle (TSI) testing. Fleet vehicles undergoing fleet self-inspections also undergo annual TSI testing. Heavy-duty gasoline-powered vehicles newer than 1981 model year undergo a TSI inspection, though on a biennial (every two years) basis. The TSI inspection measures vehicle emissions at idle and raised idle. Only hydrocarbon and carbon monoxide emissions are measured, with no engine load placed on the vehicle. These tests only measure vehicle exhaust concentrations, not actual mass of emissions.

Idle –Initial Test Results

In calendar year 2013, 83,876 vehicles underwent a TSI inspection within the program area. Of these vehicles, 7,204 (or 8.59%) failed their initial test with 5,448 (6.50%) failing the exhaust portion of the inspection. Figures 7, 8, and 9 show failure rates by model year along with the average emissions of passing and failing vehicles by pollutant. Vehicles model year 1973 and older were combined with vehicles model year 1974 shown in Figures 7, 8, and 9.

Figure 7 – Initial Idle-Test Failure Rate by Model Year

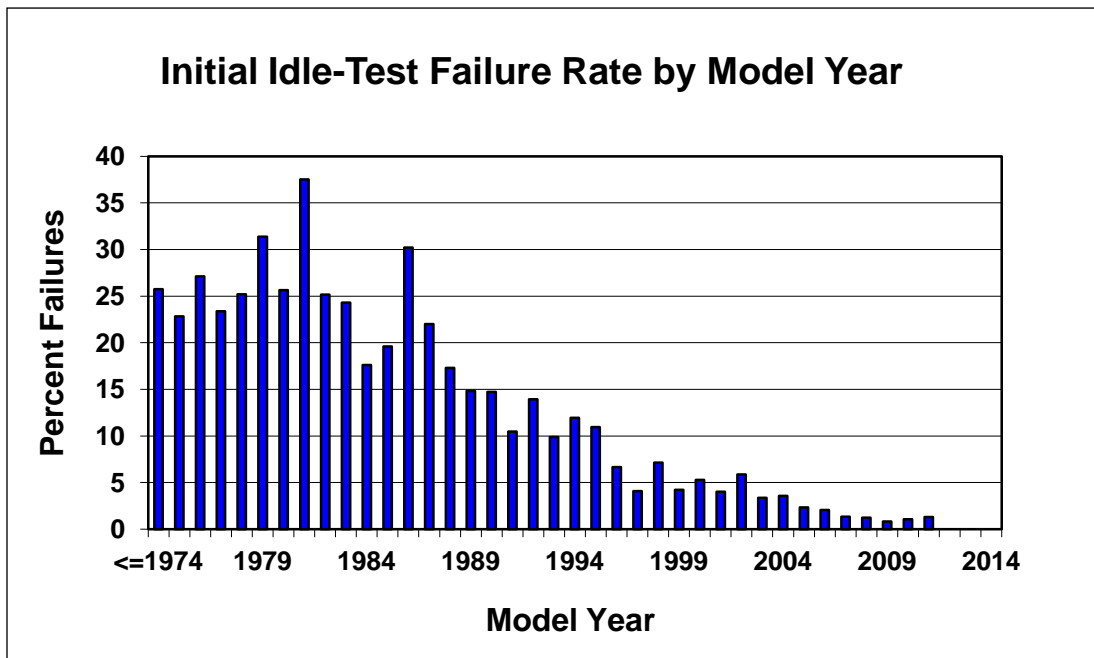


Figure 8 – Idle-Test Mean HC by Model Year

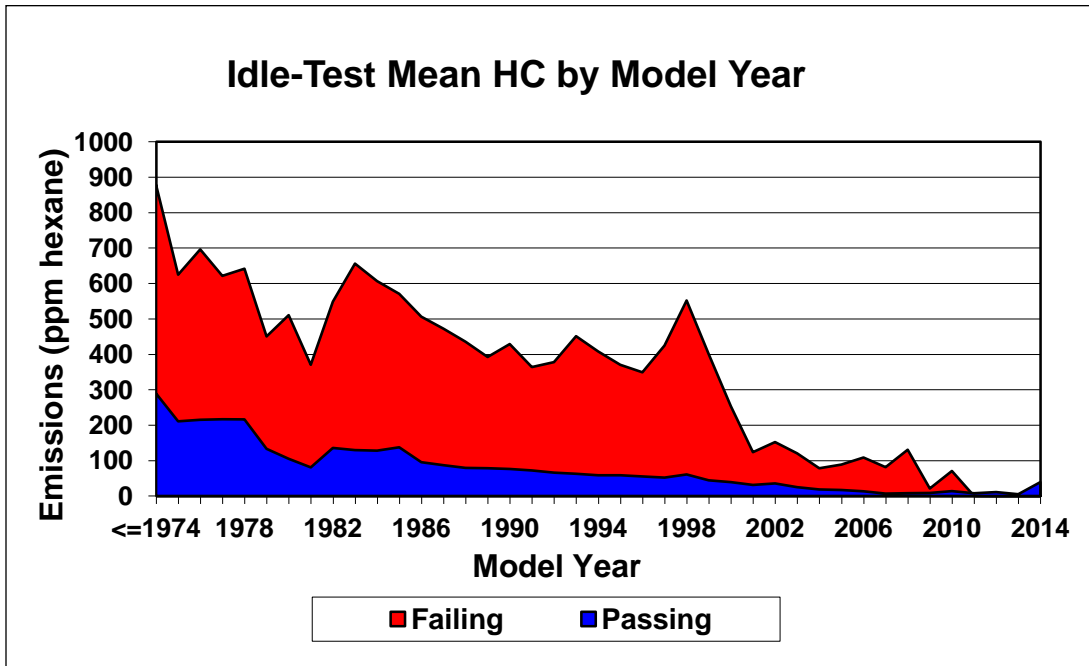
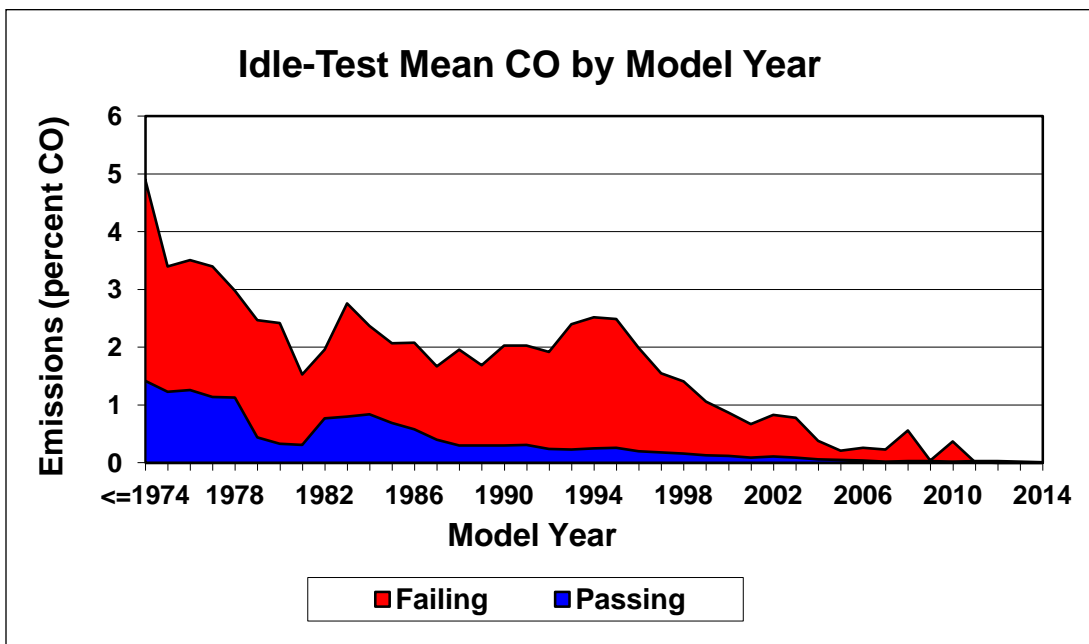


Figure 9 – Idle-Test Mean CO by Model Year



NOx emissions are not measured as part of the idle test protocol. As with the I/M240 portion of the test, most non-exhaust failures were due to missing or malfunctioning gas caps.

Idle – Gas Cap Pressure Inspection Results

One function of the gas cap is to prevent harmful fuel vapors from escaping into the atmosphere. A gas cap pressure inspection is performed to test the gas cap's ability to hold pressurized vapors inside the fuel tank. Idle-tested light-duty vehicles, model year 1975 and newer, are also required to undergo a gas cap pressure inspection. Inspectors installed a vehicle's gas cap on a device that pressurizes the cap and measures the decay of that pressure over time. If the pressure decay exceeds the standard, the cap fails the test and motorists are required to install a functional cap. There were 1,446 gas cap pressure failures during idle tests in 2013.

Idle – Visual Inspection Results

Idle-inspected vehicles undergo the same visual inspection of the secondary air injection system, catalytic converter, oxygen sensor, and gas cap as I/M240-tested vehicles. Of the 7,204 vehicles that failed the idle test in calendar year 2013, 353 of them failed for missing or improperly installed catalytic converter(s), 501 failed for missing or tampered air injection system, 105 failed for missing oxygen sensor(s), and 100 vehicles failed for a missing gas cap.

Idle – Multiple Retests

Failing vehicles are required to undergo retesting after repairs are made. Of the vehicles that failed their initial TSI inspection, some will continue to fail after their initial repair. For calendar year 2013, 6,377 vehicles were given a first idle retest. Of these, 1,805 failed again, resulting in a 28.30% idle first retest failure rate. Additional information on retest activity is available in the "Idle Retest Frequency Report" in Appendix Q.

Idle – Post-Repair Inspection Results

Vehicles that fail their TSI exhaust emissions test generally have much higher emissions than vehicles that pass the test. After failing their emissions tests, vehicles must undergo repairs until passing the test. Table 2 shows the average emissions at idle and raised idle (2500 rpm) from all vehicles that failed their initial TSI inspection and received a subsequent retest, average emissions from vehicles that passed a subsequent retest and the percent reduction by pollutant.

Table 2 – Idle Passed Retest Inspection Results (2013)

Vehicle Type	Failed Initial Idle		Failed Initial 2500		Passed Retest Idle		Passed Retest 2500		% Reduction Idle		% Reduction 2500	
	HC	CO	HC	CO	HC	CO	HC	CO	HC	CO	HC	CO
Car	448.18	2.55	336.74	2.56	157.46	0.58	150.39	1.38	58.34	75.12	44.66	36.28
Truck	509.40	2.38	303.74	1.86	131.28	0.59	114.26	0.97	66.72	72.16	52.13	37.20
Total	495.83	2.35	311.05	2.01	136.70	0.58	121.74	1.06	66.49	71.53	51.54	37.06

Smoking Vehicles

Smoking vehicles, on an individual basis, tend to be gross emitters. They are of concern to not only the State for air quality reasons, but also to nearby motorists exposed to these vehicles. To address smoking vehicles, CDPHE operates a Smoking Vehicle Hotline for motorists to report any excessively smoking vehicles they observe. Once reported, CDPHE provides owners of these vehicles with a brochure informing them that if their vehicle emits smoke during their next regular emissions test, it will fail the test. Although the smoking vehicle program is voluntary, the State encourages smoking vehicle owners to take advantage of the *free* diagnostic services at one of the State-operated Emission Technical Centers.

Vehicle information reported on the hotline is also transferred to Envirotest's lane inspectors, alerting them that the vehicle they are inspecting has been reported as a smoking vehicle. If the vehicle is smoking at the time of the inspection, then it fails the emissions test. For calendar year 2013, a total of 1,032 vehicles failed the visible smoke component of the emissions test with 879 and 153 I/M240 and idle tests respectively.

Waivers

A Certificate of Waiver (or "waiver") is an emissions control document which satisfies the emissions requirement for a vehicle for one inspection cycle, even though the vehicle was unable to meet emissions standards.

There are three types of waivers:

- A Repair Waiver is issued for a vehicle which fails an emissions test, receives emissions-related repairs that meet the cost limit (\$715 for model year 1968 and newer vehicles, and \$75 for 1967 and older vehicles), and then fails a subsequent emissions test. This type of waiver is referenced in C.R.S. 42-4-306(7)(a)(II)(A) and AQCC Regulation No. 11.
- An Economic Hardship Waiver may be issued once in each vehicle's lifetime if the vehicle owner has no other means of transportation and is receiving a recognized form of economic assistance. This type of waiver is referenced in C.R.S. 42-4-306(7)(a)(II)(C) and AQCC Regulation No. 11.
- A Diagnostic Waiver may be issued for a vehicle that fails a retest, has not met the repair cost limit, and a complete and documented physical and functional diagnosis of the vehicle (performed at one of the program's Emissions Technical Centers) concludes that no additional emissions-related repairs would be effective or needed. This type of waiver is referenced in C.R.S. 42-4-310(1)(d)(IX). Diagnostic waivers are rarely issued.

Waivers are not issued for vehicles that have tampered or missing emissions control equipment, or are visibly smoking. In addition, vehicles that fail the evaporative systems inspection (i.e., gas cap pressure) are also not eligible to receive a waiver.

A vehicle owner can request a waiver by calling the Division of Motor Vehicles at the Department of Revenue. As part of the waiver process, a vehicle may be evaluated by a CDPHE emissions technician to both verify the aforementioned criteria and make useful repair recommendations to the vehicle owner.

Additional information on waivers is available in the Department of Revenue's section of this report.

Remote Sensing Program Results

As part of the emissions inspection program, the State operates a remote-sensing based clean screen program (also called "RapidScreen.") This program permits vehicles that are seen two or more times in a year, and meet certain rigorous emissions standards, to pass a remote sensing emissions test as an alternative to the standard inspection at an emissions testing station. For this program, Envirotest (the state contractor) operates a total of 22 RSD systems in the nine-county program area. These vans operated a total of 23,038 active van-hours in calendar year 2013, generating approximately 7.1 million valid records.

According to Colorado's State Implementation Plan (SIP), RSD vehicle observations cannot exceed more than 50% of the emissions-testable fleet. An RSD vehicle observation is defined as any vehicle seen at least twice and qualifies to make a clean/not clean determination. For 2013, the overall RSD-observed fraction of testable vehicles was 35.50%. This was based on 893,702 total I/M eligible vehicles in the fleet, with 317,288 unique eligible vehicles observed by RSD. The number of unique eligible vehicles observed includes both vehicles that did and did not meet clean screen requirements.

Of the 317,288 vehicles observed by RSD, 268,862 were identified as being clean with 233,790 clean screen notices redeemed. The clean screen redeemed numbers were calculated from each individual vehicle that met clean screen requirement whose owner chose to use the passing clean screen status to register their vehicle in lieu of getting a traditional emissions test.

Remote Sensing Average Vehicle Emissions Results

The remote sensing program measures vehicle emissions under actual vehicle operating conditions. While there is variation to these measurements, when aggregated as a group, vehicle emissions trends may be observed. The following three graphs detail the emissions results of remote sensing monitoring for each of the three pollutants measured, HC, CO, and NOx. These emissions results are grouped by vehicle model year.

The fleet average emission is shown by the middle green line in each of the charts. It represents the average emissions for the entire post model year 1981 vehicle fleet that is observed through remote sensing. As defined on the charts, the average fleet emissions for all three pollutants (HC, CO, and NOx) show a pronounced downward trend to the newest model year vehicles that are the cleanest proportion of the fleet. This is a similar result that is seen in the program's IM240 and two-speed idle test results.

The bottom blue line indicates the average emissions by model year for vehicles that meet all the requirements for clean-screened vehicles. It is noticeable that the average emission rates are much lower than the fleet as a whole, reflecting the tighter emissions standards these vehicles are subjected to.

Not shown in these charts is the observation that the percentage of the fleet that meets clean-screen requirements increases substantially as model-year groups become newer (and thus cleaner). This is observed in the overall average fleet emissions lines that converge on to the bottom clean-screen line, and diverge from the non clean-screen vehicle red line (average emission of all vehicles that did not meet the clean screen requirements), as model year groups become newer.

Figure 10 - Remote Sensing Program Results - Average HC Emissions by model year

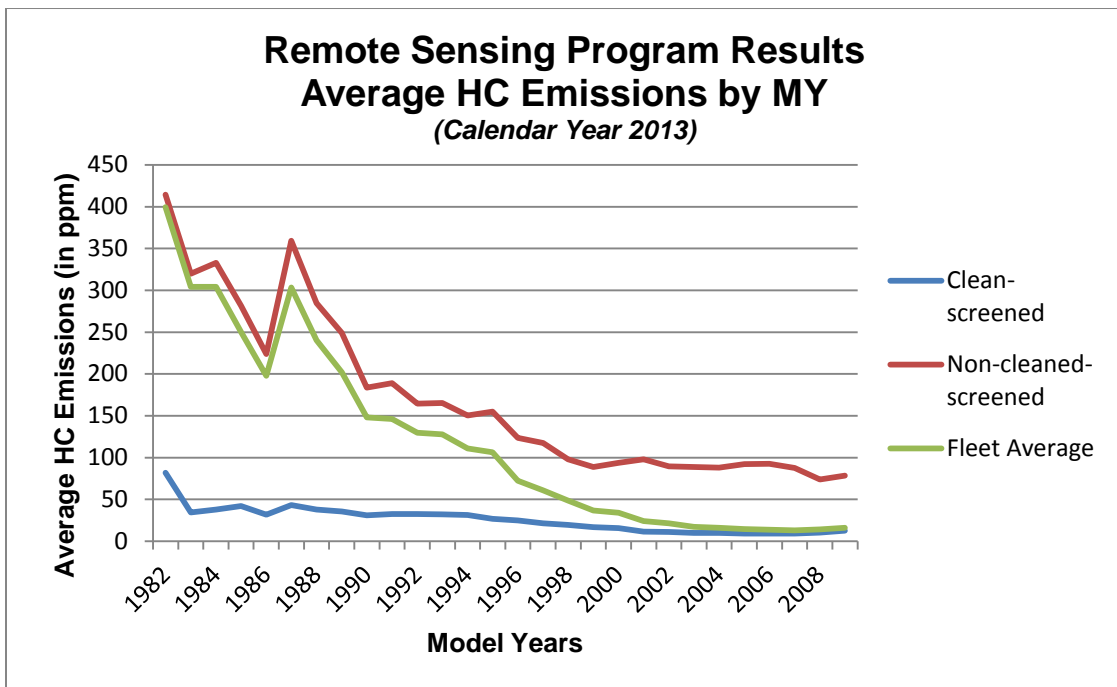


Figure 11 - Remote Sensing Program Results - Average CO Emissions by model year

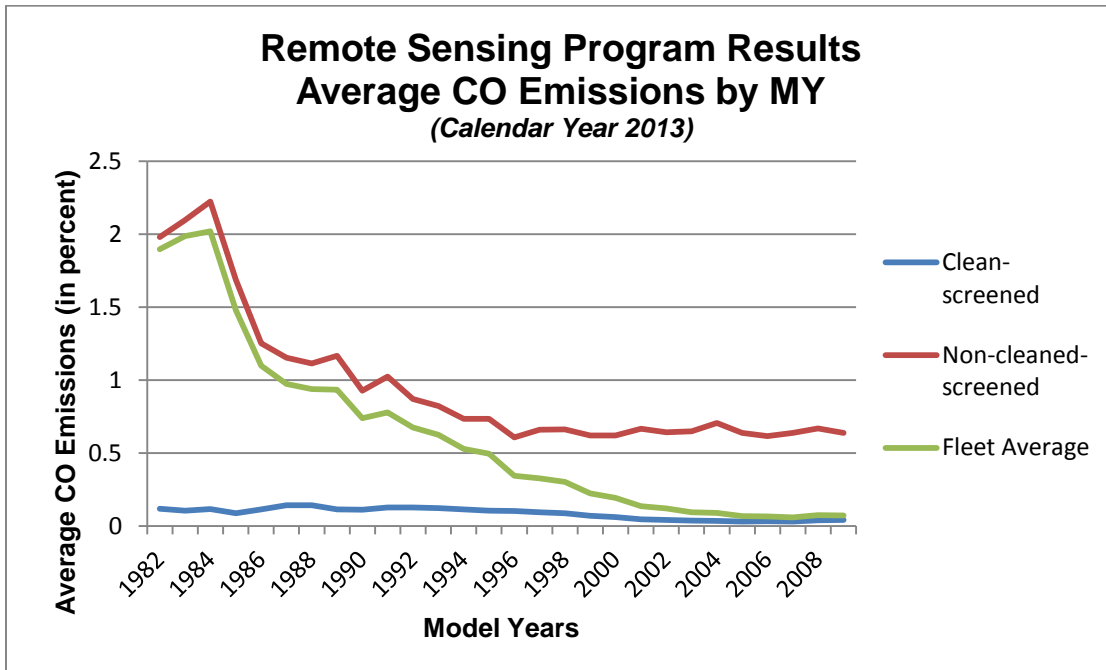
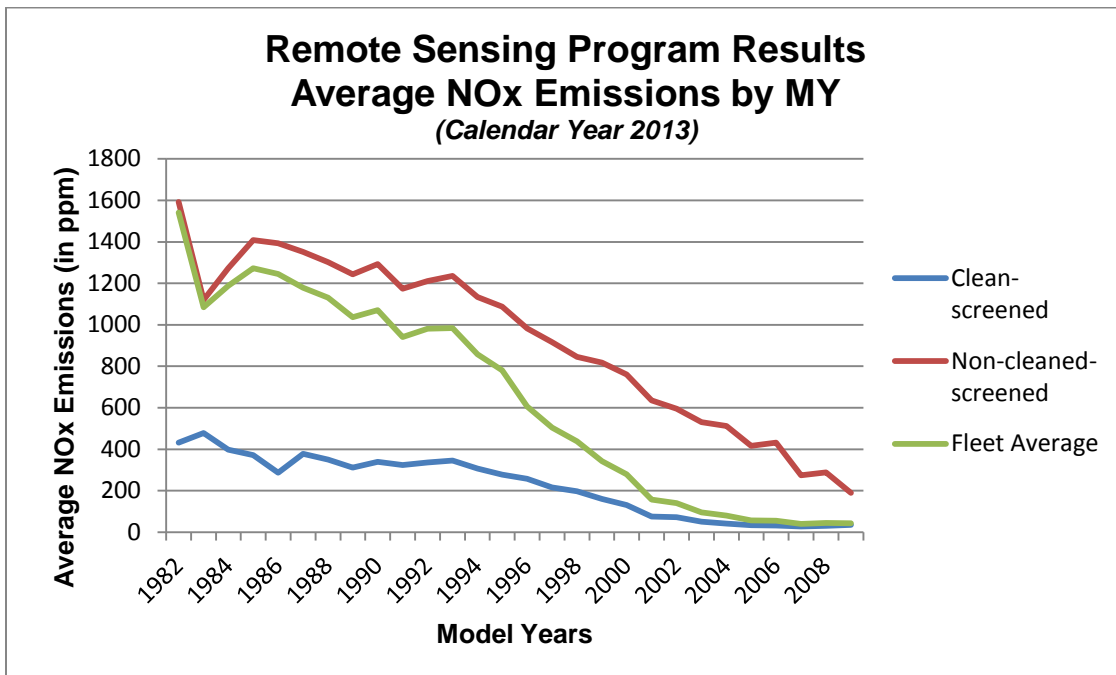


Figure 12 - Remote Sensing Program Results - Average NOx Emissions by model year



Cost-Effectiveness of the I/M Program

The purpose of the I/M Program is to improve air quality by reducing motor vehicle emissions. One way to evaluate the effectiveness of this program is to analyze its cost-effectiveness. Such analyses depend on assumptions made about the control strategy examined. The State typically looks at the program's benefit as measured in tons per day of emissions reduced and the program cost per day to operate, using appropriate methodology typically used in SIP development. A resulting cost per ton may then be obtained.

In looking at the cost of the program, the State examined the cost of the inspection, the number of vehicles inspected, registration fees connected to the operation of the I/M Program, the average cost of repairs for vehicles undergoing repair, and the fuel economy benefit obtained from repairing excessively emitting vehicles.

Cost of Inspections

The total cost of inspections is defined as the cost of inspecting an individual vehicle multiplied by the number of vehicles undergoing paid inspections. The cost of I/M240 emissions inspections and Two Speed Idle (TSI) inspections for 1982 and newer vehicles costs \$25 per inspection. Tests for 1981 and older vehicles cost \$15 per test at the state contractor's facilities, and a maximum of \$15 per test at independent pre-82 inspection stations.

Failing vehicles are entitled to a free retest within ten (10) calendar days. Subsequent inspections (third, fifth, etc.) are considered to be new inspections requiring payment. Clean Screen inspections cost \$25 for eligible vehicles whose owners wish to participate in this program, and this fee is then added to the vehicle's registration bill.

In 2013 there were a total of 1,211,972 initial inspections conducted. Of these inspections, 894,306 were initial I/M240 tests, 83,876 were initial TSI tests, and 233,790 were for vehicles that went through the Clean Screen process.

Assuming that certain failing vehicles will undergo more than one paid I/M test before passing, the State estimates that the program's inspection costs amounted to \$30,753,256 in 2013. Table 3 shows overall inspection costs per type of inspection.

Table 3 – Overall Inspection Cost by Test Type (2013)

Test Type	Initial Tests	Est. Total Paid Tests	Cost
I/M240	894,306	912,537	\$22,813,413
Idle	83,876	86,910	\$2,023,367
Clean Screen	233,790	233,790	\$5,916,476
TOTAL	1,211,972	1,233,237	\$30,753,256

Registration Fees

To help fund operations, administration, assisting motorists and industry with program outreach activities, and county registration activities, a \$2.20 vehicle fee is added to I/M program area’s motor vehicle registration fees. This fee is shared between county clerks that administer vehicle registration renewals, and the Colorado Departments of Revenue and Public Health and Environment that design, administer, evaluate, and enforce the program.

With an estimated 2,833,701 I/M-eligible gasoline-powered vehicles registered in the enhanced nine-county I/M Program area, this equates to a total registration-fee cost of \$6,234,142 for the entire program.

Repair Costs

Vehicles that failed their emissions inspection are required to undergo repair. Repair costs vary depending on the types of repairs and the shops performing them. To determine repair costs, the state collects data on the repair costs for failing vehicles. In 2013, the average emissions repair cost for vehicles failing the I/M240 test was \$292.71. For vehicles receiving a TSI inspection, the average repair costs were \$207.93 for model year 1981 and older vehicles, and \$271.49 for model year 1982 and newer vehicles. For vehicles failing the gas cap pressure check element of the I/M inspection, the assumed replacement gas cap cost is \$10.00 each.

In 2013, 70,123 vehicles failed their initial I/M240 inspections with 37,560 failing for either excess emissions and/or visual inspection, and 32,563 failing for only gas cap pressure test. Some vehicles failed for both and are included in both the excess emissions/visual failure group and gas cap failure group. For TSI inspections, 7,204 vehicles failed their initial inspection. 6,079 of these vehicles failed the exhaust and/or visual component of the inspection process, and 1,125 vehicles failed for only gas cap pressure test. Again, some vehicles fell into both groups. Table 4 details the total repair cost by test type.

Table 4 – Total Repair Costs by Test Type (2013)

Test Type	Excess Emissions/Visual		Gas Cap		TOTAL
	Count	Cost	Count	Cost	
I/M240	37,560	\$10,994,188	32,563	\$325,630	\$11,319,818
Idle	6,079	\$1,434,411	1,125	\$11,250	\$1,445,661
TOTAL	43,639	\$12,428,599	33,688	\$336,880	\$12,765,479

Fuel Savings

Vehicles that received emissions-related repairs demonstrated an estimated 7% improvement in fuel economy.

Using this fuel savings estimate, and assuming that the repairs on these vehicles will last for an entire two-year emissions testing cycle, fixing exhaust and gas cap failures results in an estimated savings of 1,685,031 gallons of gasoline. At an average cost of \$3.47 per gallon (Colorado annual average from U.S. Energy Information Administration), vehicles undergoing emission repairs saved an estimated \$5,847,056 as a result of reduced fuel usage.

Overall Program Costs

Overall program costs include inspection fees, vehicle registration fees, repair costs, and fuel economy savings. Table 5 details these costs, and the overall cost of the program.

Table 5 – Overall Program Cost (2013)

Annual I/M Program Cost (dollars)	
Inspection Fees	\$30,753,256
Registration Fees	\$6,234,142
Repair Costs	\$12,765,478
Fuel Economy Savings	-\$5,847,056
Total	\$43,905,820

Emission Benefits

Based on the MOVES model, Colorado's current AIR Program reduces total gaseous hydrocarbon (TGH) emissions by 12.9 tpd, carbon monoxide emissions by 153.4 tpd, and nitrogen oxide emissions by 14.9 tpd. Table 6 details the overall emissions program benefit by pollutant.

Table 6 – Model Program Benefit (2013)

MOVES Emission Inventories and Program Benefit (tons/day)				
	TGH	CO	NO _x	TGH + (1/60)CO + NO _x
No IM	88.03	836.67	150.68	252.65
Current IM	75.18	683.24	135.80	222.37
TPD Benefit	12.85	153.43	14.88	30.28
%Benefit	14.60%	18.34%	9.88%	11.99%

Both total gaseous hydrocarbon and nitrogen oxide emissions are ozone precursors. Carbon monoxide is a weak ozone precursor. The combined TGH +1/60 CO + NO_x ozone precursor reduction would be equal to 30.3 tons per day. The generalized TGH + (1/60) CO + NO_x formula has been used for California and other states to quantify ozone precursor emissions from motor

vehicles. For this analysis, projections assume the use of 7.8 lb. Reid Vapor Pressure (RVP) gasoline with a 100% market share for ethanol-blended gasoline.

Cost-Effectiveness

The AIR program’s cost-effectiveness is the ratio of the program’s cost to its benefits. As stated, the State calculates the entire program cost to be approximately \$43.9 million in 2013. This cost includes inspection costs, repair costs, and registration renewal fees used to fund administrative costs. It does not include the “convenience expense” of motorists’ time or mileage costs.

The State estimates the cost-effectiveness of the inspection program at \$3,972 per ton of removed ozone precursors. For this analysis, the full benefit of NO_x and TGH, and 1/60 benefit of CO are added together. A reduced CO benefit is used because of the lower reactivity of CO for ozone formation. For carbon monoxide, the cost-effectiveness is estimated at \$784 per ton. Table 7 gives the specific breakdown of cost per ton removed by pollutant.

Table 7 – AIR Program Cost Effectiveness (2013)

Cost Benefit Results	
Emission	Cost/Benefit (\$/ton)
HC	9,361
CO	784
NO _x	8,084
TGH + (1/60) CO + NO _x	3,972

2013 Annual Report from the Colorado Department of Revenue

The Colorado Department of Revenue (DOR) continues to operate the enhanced Colorado Vehicle Emissions Inspection and Maintenance (I/M) Program which has been in place since 1995. During 2013, DOR maintained quality assurance, auditing, licensing, and enforcement activities consistent with Colorado Revised Statutes (C.R.S.) and the Code of Colorado Regulations (C.C.R.).

New Program Developments

The passage of House Bill 13-1071 modified the definition of a collector item to include vehicles that are at least 32 years old. The new definition requires qualifying vehicles to pass an emission inspection at the time of initial registration and upon registration renewal every five years. The definition requires the vehicle owner to sign an affidavit declaring that the vehicle will not be driven more than 4,500 miles annually. Model year vehicles of 1975 and earlier may be registered as a collector's item without a certificate of emissions control.

2013 Audit Results

Pursuant to C.R.S. 42-5-305(6)(a), DOR oversees an ongoing quality assurance program. The objective of this program is to discover, correct, and prevent fraud, as well as to ensure proper calibration of emissions test equipment and adherence to proper testing procedures.

Record Audits

DOR performed 251 record audits on all contractor-operated inspection centers and inspection-only facilities. Record audits were used to identify and correct anomalies in the vehicle inspection database, as well as to prompt for additional risk-based equipment audits. The record audit process also includes an ongoing evaluation of approximately 9.5 million statewide vehicle registration records; this ensures that county clerks maintain a reasonable level of record accuracy.

Performance Audits

DOR executed overt performance audits pursuant to C.R.S. 42-4-305(6)(b)(I).

Performance audits were conducted contemporaneously with equipment audits at enhanced inspection centers, resulting in 582 performance audits completed. Forty-nine overt performance audits were completed at independent inspection-only facilities and fleet testing facilities. There were three occasions where a fleet testing facility was placed on administrative hold as a result of equipment failure; therefore, a performance audit was unable to be conducted as scheduled. There were no violations associated with these performance audits.

Equipment Audits

DOR executed overt performance audits twice per year for each testing lane pursuant to C.R.S. 42-4-305(6)(e)(I).

During 2013, 194 lane equipment audits were performed on 97 contractor-operated enhanced inspection lanes, 6 equipment audits performed at 3 independent inspection-only stations, and 43 equipment audits performed at 23 fleet inspection stations. There were three occasions where a fleet testing facility was placed on administrative hold as a result of equipment failure; therefore, an equipment audit was unable to be conducted as scheduled.

There were 67 initial audit deficiencies, 7 of which resulted in the suspension of a testing lane. Upon verification of repair and a passing audit, failing lanes were released within two days of being suspended. The remaining initial audit deficiencies were corrected at the time of the audit and returned to service the same day. Table 8 categorizes the initial audit failures by equipment category.

Table 8 – Audit Failures by Equipment Category (2013)

2013 Initial Equipment Audit Failures by Category	
Analyzer	46
Dynamometer	21

Covert Audits

Pursuant to C.R.S. 42-4-305(6)(c)(I), all enhanced inspection centers were subject to covert audits, using an unmarked motor vehicle, at least once per year per number of inspectors at each inspection-only facility and enhanced inspection center. All covert vehicles used in the audit process were tampered to fail the visual emission component inspection. Possible tampers included (but were not limited to) removed or tampered catalytic converters, air injection systems, oxygen sensors, and Check Engine lights.

Throughout 2013, 314 covert inspections were conducted at enhanced inspection centers, resulting in 232 tests conducted properly and 82 tests conducted improperly. There were multiple tests in which more than one emissions control component was not correctly identified; this resulted in 97 emission control component violations. Table 9 categorizes these violations and the number of times components were incorrectly identified. In 63 of the 82 improper tests, the failing vehicles received passing results.

Table 9 – Emission components incorrectly identified as a result of covert vehicles (2013)

Emission Component Tampered	Number of Times Incorrectly Identified
Oxygen Sensor	18
Catalytic Converter	47
Air Injection System	7
Check Engine Light	25

Note: Covert inspection results may have had multiple components incorrectly identified.

Risk-Based Audits

Risk-based audits were prompted by suspicious emissions testing activity, data analysis, or consumer complaints.

As a result of the previously mentioned methods of detection, DOR conducted 558 risk-based equipment audits, resulting in 38 initial failures, one of which resulted in the suspension of a testing lane. A risk-based equipment audit only involves auditing specific pieces of what would, in its entirety, be included in a scheduled equipment audit.

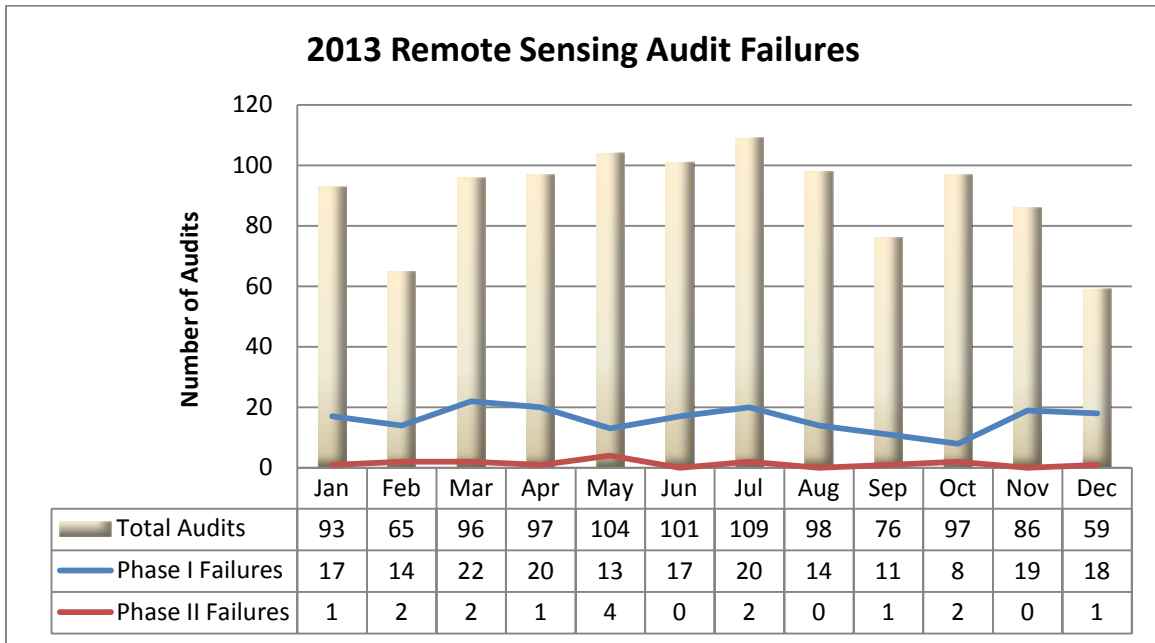
Eleven risk-based covert audits were conducted, resulting in one violation. Eighteen risk-based performance audits were conducted with no deficiencies detected.

Remote Sensing Audits

Remote Sensing (i.e., Clean Screen, RapidScreen, or RSD) mobile emissions testing equipment audits were also performed by DOR for quality assurance purposes. A Phase I audit includes nine gas readings from three different known gas blends. In the event that a gas reading is outside the allowable tolerance, a Phase II audit was initiated. A Phase II audit includes six additional gas readings from the gas blend that was outside the allowable tolerance.

DOR performed 1,081 audits in 2013, resulting in 193 Phase I failures, or a 17.9% initial failure rate. All but 16 of the Phase I failures were immediately returned to service after passing a Phase II audit. Figure 13 shows the monthly number of audits completed in relation to Phase I and Phase II remote sensing device audit failures.

Figure 13 – Remote Sensing Audit Failures (2013)



Note: The overall audit result is not a failure unless a secondary audit (Phase II) also fails.

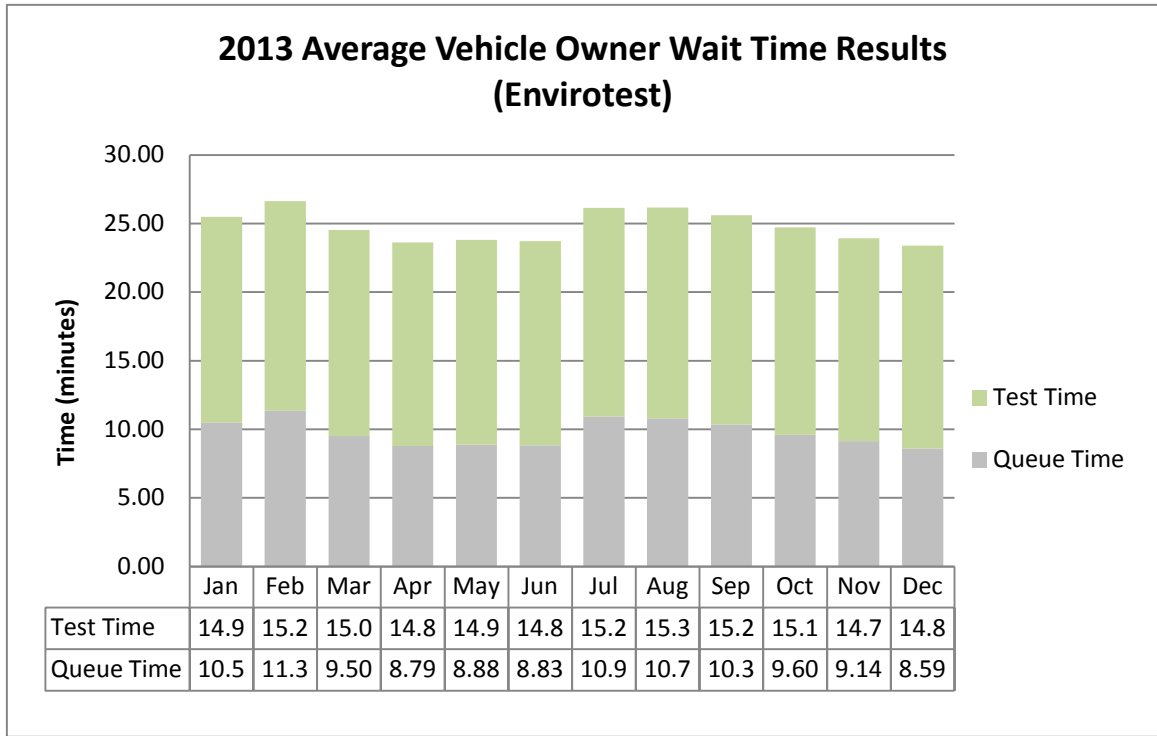
2013 Enforcement Results

Hearing & Fines

In 2013, 203 hearings were conducted as a result of improper vehicle emission inspections. These hearings yielded the following results: 62 inspectors were placed on probation, 3 inspectors were suspended, and 18 inspector licenses were revoked. Fines totaling \$146,900 was collected as a result of improper vehicle inspections.

Additionally, \$262,925 was collected as a result of wait-time violations. These violations occurred when motorist wait times at contractor inspection centers exceeded 20 minutes when averaged over a two-hour period. The wait-time calculation includes time spent in the queue and test time (whichever is greater) as well as the days of the month when staffing levels are below 78%. The fines assessed were consistent with C.R.S. and the terms of the contract held with Envirotest. The total of all fines collected in 2013 was \$409,825. Figure 14 shows the average motorist wait time in relation to the amount of time spent in the queue and within the facility.

Figure 14 – Average Vehicle Owner Wait Time Results (2013, per Envirotest)



Complaints

A total of 418 complaints were opened against inspection stations operated by Envirotest. DOR involvement in the complaint mitigation process resulted in \$64,212 in refunds to consumers. DOR responded to 38 emissions-related complaints against independent inspection stations and auto dealerships. A total of \$425 was refunded to consumers from those proceedings. Table 10 categorizes the 456 total complaints by category.

Table 10 – Complaints Opened, by Category (2013)

2013 Complaints Opened by Category	
Vehicle Damage	400
Procedural Claims	19
Statutory Non-Compliance	37

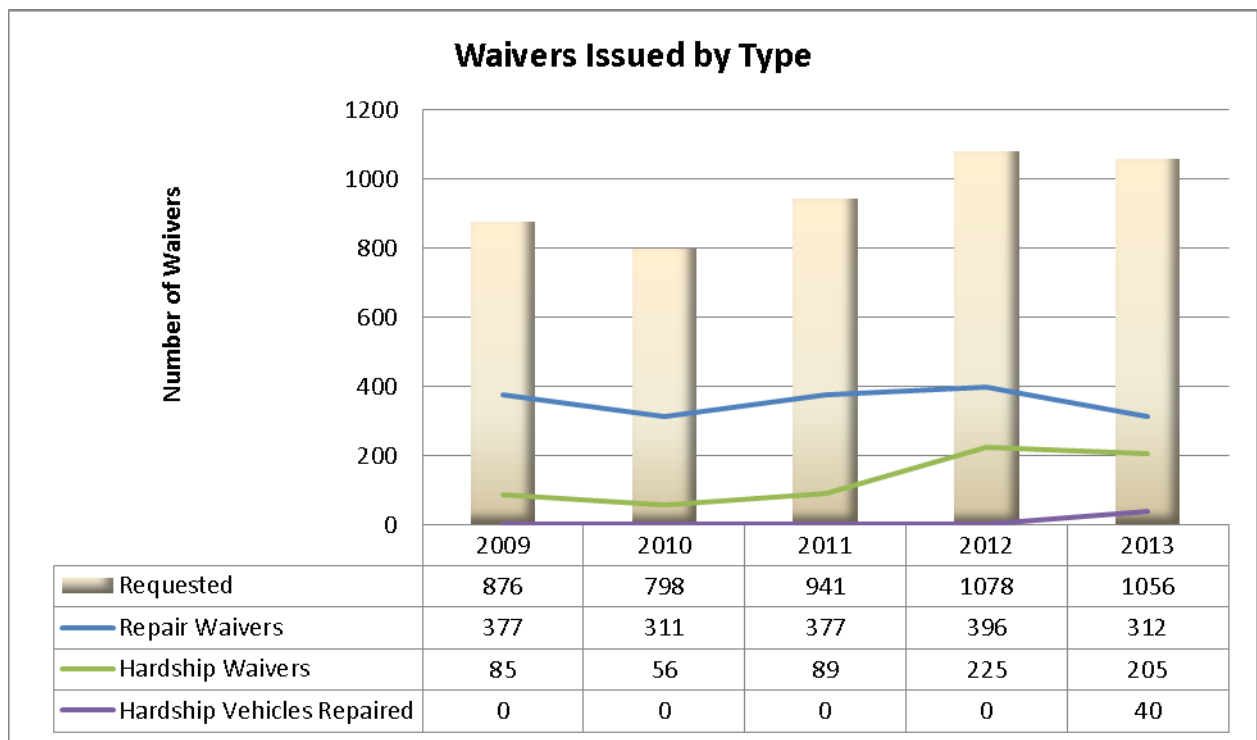
Waivers

In 2013, 1,056 waiver applications were submitted to and processed by DOR. Of the 1,056 applications, 312 resulted in the issuance of Repair Waivers, and 205 resulted in Economic Hardship Waivers.

In 2013, the Colorado Department of Public Health and Environment, Colorado Department of Revenue, and Regional Air Quality Council (RAQC) initiated and operated a Repair Assistance Program. This program provides emissions related repairs to gasoline-powered vehicles registered in the Denver Metropolitan Area (Adams, Arapahoe, Boulder, Broomfield, Denver, Douglas, and Jefferson) that qualify for an Economic Hardship Waiver. As a result of this program, emissions related repairs were performed on 40 vehicles that otherwise would have been issued a hardship waiver.

Figure 15 shows the total amount of emission waivers requested and issued by waiver type over a five-year period.

Figure 15 – Waivers Issued by Type (2009 – 2013)



The following program changes directly impacted the number of emissions waivers issued by DOR:

- November 2010: portions of Larimer and Weld counties were added to the enhanced emissions program.
- January 2012: the allowable emission standards were lowered in Larimer and Weld counties to mirror the standards of the Denver Metro Area. The original standards were less restrictive in the implementation year of the Northern Front Range enhanced program.
- February 2013: The hardship repair program was initiated and has reduced the amount of vehicles that would otherwise receive a hardship waiver.

The following were the most common reasons a waiver was *not* issued:

- **Waiver not pursued** - after completing the waiver application, the vehicle owner withdrew the request or did not respond to requests for information or availability.
- **Vehicle passed the inspection** - after requesting a waiver, additional repairs were made resulting in a passing emissions test. Vehicle owners are encouraged to use CDPHE's Emissions Technical Centers for a free diagnosis of their vehicle. CDPHE technicians are often able to assist the owner and recommend minor repairs that allow the vehicle to pass the emissions inspection.
- **Improper repairs to the vehicle** – repairs were performed that did not address the cause of the emissions failure. C.R.S 42-4-306(7)(b)(I)
- **Vehicle was tampered or emitting smoke** - when presented for a waiver, the vehicle was not equipped with the manufacturer's required emission control equipment, or was emitting visible smoke above 5% opacity. C.R.S 42-4-306(7)(b)(I)
- **Minimum waiver limits for dollars spent to repair the vehicle had not been met** - vehicle owner had not incurred the minimum \$715 in repair costs to bring the vehicle into compliance. C.R.S 42-4-310(1)(d)(VI)

2013 Licensing Results

Pursuant to C.R.S. 42-4-305, DOR is responsible for issuing biennial inspection licenses to independent, fleet, and contractor emissions inspection stations, as well as to inspectors who work in those stations. DOR also licenses RapidScreen remote sensing devices and the inspectors who operate them. All RapidScreen testing site licenses are issued annually in conjunction with the Colorado Department of Transportation (CDOT), as testing sites require frequent review due to road or traffic configuration changes.

Table 11 shows the number of initial and renewed licenses by license type for 2013.

Table 11 – Licenses Issued and Renewed, by Type (2013)

License Type	Number of Initial Licenses	Number of Licenses Renewed
Fleet Inspector	12	75
Contractor employed Inspectors	198	66
Independent Station	0	2
Fleet Station	0	20
RSD Site	0	170
Total	210	333

Appendix – Additional Reports

In addition to this report, the following detailed data reports are available:

Report	Content
A I/M240 Initial Inspection Report	Initial inspection pass/fail statistics, including average emissions results for overall total, passing and failing inspections by model year and vehicle class.
B I/M240 Initial Failure Report	Initial inspection failure statistics, including average emissions results for inspections which failed for both exhaust and visual components, exhaust only, and visual only by model year and vehicle class.
C I/M240 Initial Exhaust Failure Report	Initial exhaust failure statistics by model year, vehicle class, and pollutant.
D I/M240 Initial Visual Failure Report (Mandatory)	Initial visual mandatory failure statistics by model year, vehicle class, and emissions component.
E I/M240 Initial Visual Failure Report (Advisory)	Initial visual advisory failure statistics by model year, vehicle class, and emissions component.
F I/M240 Retest Pass Reduction Report	Passing retest inspection statistics by model year and vehicle class.
G I/M240 Retest Frequency Report	Retest inspection statistics.
H I/M240 Fleet Characterization Summary Report – Initial Inspection Component	Initial inspection pass/fail statistics from vehicles that passed or failed with a final result of pass or waiver, including average emissions results by model year and vehicle class.
I I/M240 Fleet Characterization Summary Report – Final Inspection Component	Final inspection statistics from vehicles that passed or failed with a final result of pass or waiver, including average emissions results by model year and vehicle class.

J I/M240 Fleet Characterization Summary Report – Emissions Reduction Component	Emissions reduction statistics from vehicles that passed or failed with a final result of pass or waiver by model year and vehicle class.
K Idle Initial Inspection Report Enhanced Area	Initial idle inspection pass/fail statistics, including average emissions results for passing and failing inspections by model year.
L Idle Initial Failure Report Enhanced Area	Initial idle inspection failure statistics, including average emissions results for inspections which failed for both exhaust and visual components, exhaust only, and visual only by model year.
M Idle Initial Exhaust Failure Report Enhanced Area	Initial idle exhaust failure statistics by model year, vehicle class, and pollutant.
N Idle Initial Visual Failure Report (Mandatory)	Idle initial mandatory visual failure statistics by model year, vehicle class, and emissions component.
O Idle Initial Visual Failure Report (Advisory)	Idle initial advisory visual failure statistics by model year, vehicle class, and emissions component.
P Idle Retest Pass Reduction Report	Passing idle retest inspection statistics by model year and vehicle class.
Q Idle Retest Frequency Report	Retest idle inspection statistics.
R I/M Eligible Vehicle Report, Evaluated Vehicles	Clean Screen observations performed in 2013 by model year and vehicle type.

Appendix A

I/M240 Initial Inspection Report

Initial Inspection Report (V1.01)

Vehicle		All Initial Inspections				Passing Initial Inspections					Failing Initial Inspections				
Year	Type	Total	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)	Total	Total %	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)	Total	Total %	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)
1982	LDGV	324	2.0739	27.7254	2.0234	250	77.16%	1.5928	19.2717	2.0125	74	22.84%	3.6990	56.2852	2.0602
	LDGT1	294	3.0666	42.5254	2.8374	191	64.97%	2.3654	30.1269	2.9332	103	35.03%	4.3669	65.5167	2.6598
	LDGT2	88	3.7956	56.2107	2.7999	55	62.50%	2.7674	33.4783	2.7499	33	37.50%	5.5092	94.0980	2.8833
1982 Total		706	2.7019	37.4391	2.4592	496	70.25%	2.0206	25.0271	2.4488	210	29.75%	4.3111	66.7551	2.4837
1983	LDGV	617	1.6582	20.4012	2.0600	471	76.34%	1.2915	12.2499	2.0608	146	23.66%	2.8411	46.6973	2.0576
	LDGT1	491	3.3996	40.9490	2.5053	351	71.49%	3.0309	31.9005	2.3947	140	28.51%	4.3241	63.6350	2.7825
	LDGT2	204	3.1986	48.7920	2.8810	127	62.25%	2.5210	36.3331	2.7800	77	37.75%	4.3163	69.3411	3.0476
1983 Total		1312	2.5494	32.5054	2.3543	949	72.33%	2.0993	22.7409	2.2805	363	27.67%	3.7260	58.0330	2.5472
1984	LDGV	830	1.7794	19.4700	1.9441	625	75.30%	1.2233	11.3127	1.9220	205	24.70%	3.4750	44.3400	2.0115
	LDGT1	652	2.6207	34.4997	2.4991	450	69.02%	1.9443	22.7245	2.5127	202	30.98%	4.1274	60.7318	2.4688
	LDGT2	259	3.1561	47.8286	3.0326	149	57.53%	1.9545	27.8007	3.0411	110	42.47%	4.7838	74.9574	3.0212
1984 Total		1741	2.2993	29.3174	2.3139	1224	70.30%	1.5774	17.5153	2.2754	517	29.70%	4.0084	57.2589	2.4050
1985	LDGV	1409	1.3925	16.7435	1.9191	1097	77.86%	1.0452	10.8288	1.8908	312	22.14%	2.6135	37.5398	2.0187
	LDGT1	1083	2.3754	29.4223	2.7247	799	73.78%	1.8184	18.5256	2.7155	284	26.22%	3.9423	60.0791	2.7505
	LDGT2	371	2.8274	41.4231	2.9354	220	59.30%	1.8361	22.2661	2.9383	151	40.70%	4.2717	69.3340	2.9312
1985 Total		2863	1.9502	24.7377	2.3555	2116	73.91%	1.4194	14.9242	2.3111	747	26.09%	3.4539	52.5359	2.4814
1986	LDGV	1508	1.2505	12.4181	1.8714	1248	82.76%	0.9214	7.9015	1.8080	260	17.24%	2.8304	34.0979	2.1759
	LDGT1	1235	1.9888	22.5272	2.4995	949	76.84%	1.5918	15.5677	2.4790	286	23.16%	3.3062	45.6199	2.5677
	LDGT2	353	3.1729	41.3625	2.8680	185	52.41%	1.8395	19.7574	2.7831	168	47.59%	4.6413	65.1539	2.9616
1986 Total		3096	1.7642	19.7508	2.2356	2382	76.94%	1.2598	11.8766	2.1510	714	23.06%	3.4471	46.0205	2.5177
1987	LDGV	2346	1.0994	11.2792	1.8430	2002	85.34%	0.8374	7.6985	1.8055	344	14.66%	2.6239	32.1181	2.0611
	LDGT1	1851	1.7728	20.0430	2.3054	1465	79.15%	1.4194	14.4221	2.2802	386	20.85%	3.1138	41.3760	2.4013
	LDGT2	555	2.1825	19.6576	2.9862	423	76.22%	1.7504	13.6801	2.8707	132	23.78%	3.5670	38.8127	3.3561
1987 Total		4752	1.4882	15.6714	2.1566	3890	81.86%	1.1559	10.8811	2.1001	862	18.14%	2.9877	37.2889	2.4117
1988	LDGV	2170	1.0955	11.1920	1.6364	1830	84.33%	0.7389	7.8397	1.5875	340	15.67%	3.0149	29.2353	1.8993
	LDGT1	1894	1.6370	16.6541	2.2399	1513	79.88%	1.3091	12.0607	2.1476	381	20.12%	2.9391	34.8952	2.6063
	LDGT2	628	1.8936	16.2693	2.7876	489	77.87%	1.4310	12.3108	2.5505	139	22.13%	3.5207	30.1953	3.6218
1988 Total		4692	1.4209	14.0765	2.0341	3832	81.67%	1.0524	10.0769	1.9315	860	18.33%	3.0631	31.8980	2.4909
1989	LDGV	3801	0.9517	10.8995	1.6446	3276	86.19%	0.7210	7.9151	1.6067	525	13.81%	2.3914	29.5218	1.8814
	LDGT1	2894	1.4993	17.0522	2.0623	2350	81.20%	1.1678	12.5270	1.9683	544	18.80%	2.9314	36.6006	2.4684
	LDGT2	1025	1.8980	16.2403	2.8394	820	80.00%	1.4394	12.3621	2.6170	205	20.00%	3.7322	31.7529	3.7292
1989 Total		7720	1.2826	13.9151	1.9598	6446	83.50%	0.9753	10.1622	1.8670	1274	16.50%	2.8377	32.9035	2.4294
1990	LDGV	4661	0.9067	10.4736	1.6892	4005	85.93%	0.6995	7.7021	1.6099	656	14.07%	2.1720	27.3941	2.1732
	LDGT1	2371	1.5194	15.8264	2.1197	1911	80.60%	1.1255	11.0561	2.0268	460	19.40%	3.1562	35.6439	2.5056
	LDGT2	937	1.9201	17.4688	2.7813	734	78.34%	1.4662	13.5707	2.6939	203	21.66%	3.5613	31.5636	3.0975
1990 Total		7969	1.2082	12.8887	1.9457	6650	83.45%	0.9065	9.3137	1.8494	1319	16.55%	2.7290	30.9129	2.4314
1991	LDGV	7253	0.8029	9.4188	1.5354	6187	85.30%	0.5843	6.7184	1.4493	1066	14.70%	2.0713	25.0918	2.0352
	LDGT1	4257	1.1632	13.4526	1.8827	3626	85.18%	0.9444	10.6242	1.7772	631	14.82%	2.4202	29.7054	2.4886
	LDGT2	1161	1.5679	17.8488	2.6273	886	76.31%	1.2771	14.3664	2.4293	275	23.69%	2.5047	29.0685	3.2654
1991 Total		12671	0.9940	11.5464	1.7521	10699	84.44%	0.7637	8.6755	1.6416	1972	15.56%	2.2434	27.1226	2.3518
1992	LDGV	7036	0.7823	9.2236	1.4785	6014	85.47%	0.5660	6.2637	1.4239	1022	14.53%	2.0546	26.6413	1.7993

Vehicle		All Initial Inspections				Passing Initial Inspections					Failing Initial Inspections				
Year	Type	Total	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)	Total	Total %	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)	Total	Total %	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)
	LDGT1	3474	1.1232	12.7986	1.8563	2917	83.97%	0.9066	9.9143	1.7424	557	16.03%	2.2573	27.9038	2.4529
	LDGT2	1474	1.7695	16.3433	2.6139	1154	78.29%	1.3825	13.9266	2.4817	320	21.71%	3.1652	25.0586	3.0908
1992 Total		11984	1.0025	11.1357	1.7277	10085	84.15%	0.7580	8.1964	1.6371	1899	15.85%	2.3012	26.7449	2.2086
1993	LDGV	10073	0.6855	7.8159	1.5152	8772	87.08%	0.5402	5.7477	1.4365	1301	12.92%	1.6657	21.7605	2.0453
	LDGT1	6551	1.1108	11.5649	2.0926	5724	87.38%	0.8991	9.5017	1.9691	827	12.62%	2.5763	25.8446	2.9474
	LDGT2	2228	1.6772	16.4519	2.6049	1745	78.32%	1.3808	13.9232	2.4369	483	21.68%	2.7480	25.5877	3.2117
1993 Total		18852	0.9505	10.1393	1.8446	16241	86.15%	0.7570	7.9492	1.7317	2611	13.85%	2.1544	23.7621	2.5468
1994	LDGV	10651	0.5856	6.9101	1.2299	9424	88.48%	0.4218	5.1013	1.1579	1227	11.52%	1.8439	20.8028	1.7821
	LDGT1	7131	0.9314	10.3456	1.8438	6080	85.26%	0.7220	8.0847	1.7072	1051	14.74%	2.1429	23.4250	2.6341
	LDGT2	3187	1.2774	13.6686	2.2265	2469	77.47%	0.9313	10.3936	2.0167	718	22.53%	2.4674	24.9304	2.9479
1994 Total		20969	0.8083	9.1056	1.5901	17973	85.71%	0.5933	6.8376	1.4617	2996	14.29%	2.0982	22.7119	2.3604
1995	LDGV	16420	0.5089	5.9990	1.0768	14679	89.40%	0.3978	4.6952	1.0040	1741	10.60%	1.4454	16.9917	1.6908
	LDGT1	9414	0.8236	9.5427	1.8463	8104	86.08%	0.6554	7.6672	1.6817	1310	13.92%	1.8640	21.1451	2.8646
	LDGT2	4958	1.2135	13.0452	2.2477	3895	78.56%	0.8893	10.2936	2.0189	1063	21.44%	2.4014	23.1275	3.0861
1995 Total		30792	0.7186	8.2170	1.5006	26678	86.64%	0.5478	6.4154	1.3581	4114	13.36%	1.8257	19.8996	2.4251
1996	LDGV	14840	0.4049	4.9955	0.8930	13261	89.36%	0.3099	3.8154	0.8167	1579	10.64%	1.2026	14.9066	1.5335
	LDGT1	9040	0.4860	6.5457	1.5078	7779	86.05%	0.3888	5.1038	1.3747	1261	13.95%	1.0861	15.4407	2.3289
	LDGT2	3700	0.6638	7.7206	1.5025	3133	84.68%	0.5059	6.1389	1.3456	567	15.32%	1.5367	16.4601	2.3699
1996 Total		27580	0.4662	5.8692	1.1763	24173	87.65%	0.3607	4.5312	1.0648	3407	12.35%	1.2151	15.3628	1.9671
1997	LDGV	21933	0.3606	4.7931	0.8057	19872	90.60%	0.2965	3.7908	0.7461	2061	9.40%	0.9786	14.4569	1.3801
	LDGT1	15540	0.4305	6.0885	1.3660	13424	86.38%	0.3501	4.9693	1.2354	2116	13.62%	0.9406	13.1891	2.1949
	LDGT2	5857	0.5476	6.9448	1.5006	4984	85.09%	0.4025	5.5575	1.3049	873	14.91%	1.3763	14.8649	2.6179
1997 Total		43330	0.4110	5.5485	1.1006	38280	88.35%	0.3291	4.4341	0.9905	5050	11.65%	1.0314	13.9962	1.9355
1998	LDGV	20807	0.2955	4.4064	0.6918	18744	90.09%	0.2310	3.4164	0.6291	2063	9.91%	0.8822	13.4022	1.2617
	LDGT1	15502	0.3895	5.6224	1.2118	13501	87.09%	0.3173	4.4931	1.0798	2001	12.91%	0.8768	13.2416	2.1024
	LDGT2	5522	0.4779	6.1116	1.3799	4701	85.13%	0.3301	4.6358	1.1762	821	14.87%	1.3245	14.5617	2.5465
1998 Total		41831	0.3544	5.0822	0.9754	36946	88.32%	0.2751	3.9650	0.8634	4885	11.68%	0.9544	13.5313	1.8220
1999	LDGV	28562	0.2462	3.7041	0.6401	25915	90.73%	0.1993	2.9740	0.5725	2647	9.27%	0.7046	10.8520	1.3020
	LDGT1	20324	0.2710	4.2300	0.8732	18157	89.34%	0.2252	3.5375	0.7714	2167	10.66%	0.6542	10.0322	1.7263
	LDGT2	9925	0.3621	4.7300	1.0645	8535	85.99%	0.2558	3.2697	0.8723	1390	14.01%	1.0143	13.6966	2.2446
1999 Total		58811	0.2743	4.0590	0.7923	52607	89.45%	0.2174	3.2165	0.6898	6204	10.55%	0.7564	11.2030	1.6614
2000	LDGV	27699	0.1984	3.2159	0.5371	25254	91.17%	0.1507	2.5214	0.4554	2445	8.83%	0.6910	10.3897	1.3816
	LDGT1	18992	0.2486	3.7283	0.7767	17156	90.33%	0.2097	3.0554	0.6928	1836	9.67%	0.6126	10.0155	1.5613
	LDGT2	7247	0.2932	4.2034	0.8388	6378	88.01%	0.2099	3.0229	0.7108	869	11.99%	0.9040	12.8678	1.7784
2000 Total		53938	0.2288	3.5290	0.6620	48788	90.45%	0.1792	2.7747	0.5722	5150	9.55%	0.6990	10.6745	1.5126
2001	LDGV	33476	0.1375	2.4933	0.3636	31260	93.38%	0.1027	2.0807	0.3082	2216	6.62%	0.6286	8.3137	1.1444
	LDGT1	22832	0.1385	2.9899	0.4737	21170	92.72%	0.1166	2.5456	0.4221	1662	7.28%	0.4178	8.6487	1.1305
	LDGT2	9624	0.2474	3.4725	0.6761	8724	90.65%	0.1996	2.7927	0.5980	900	9.35%	0.7107	10.0614	1.4327
2001 Total		65932	0.1539	2.8082	0.4473	61154	92.75%	0.1213	2.3432	0.3890	4778	7.25%	0.5707	8.7594	1.1939
2002	LDGV	28191	0.1177	2.7767	0.3182	26159	92.79%	0.0894	2.4238	0.2656	2032	7.21%	0.4820	7.3203	0.9956
	LDGT1	19774	0.1263	3.5710	0.4128	18450	93.30%	0.0990	2.9604	0.3608	1324	6.70%	0.5073	12.0794	1.1373

Vehicle		All Initial Inspections				Passing Initial Inspections					Failing Initial Inspections				
Year	Type	Total	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)	Total	Total %	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)	Total	Total %	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)
	LDGT2	6402	0.1899	2.8409	0.6741	5815	90.83%	0.1651	2.3529	0.6028	587	9.17%	0.4350	7.6751	1.3807
2002 Total		54367	0.1293	3.0731	0.3945	50424	92.75%	0.1016	2.6119	0.3393	3943	7.25%	0.4835	8.9712	1.1006
2003	LDGV	33611	0.0768	1.5802	0.2427	31873	94.83%	0.0582	1.3510	0.2087	1738	5.17%	0.4168	5.7825	0.8655
	LDGT1	24513	0.0874	1.9310	0.3043	23201	94.65%	0.0745	1.6209	0.2806	1312	5.35%	0.3157	7.4145	0.7232
	LDGT2	9446	0.1543	2.2494	0.4231	8874	93.94%	0.1244	1.7693	0.3850	572	6.06%	0.6183	9.6966	1.0137
2003 Total		67570	0.0915	1.8010	0.2902	63948	94.64%	0.0733	1.5070	0.2593	3622	5.36%	0.4120	6.9918	0.8373
2004	LDGV	22604	0.0718	1.5349	0.1876	21289	94.18%	0.0521	1.2646	0.1512	1315	5.82%	0.3917	5.9098	0.7769
	LDGT1	18192	0.0684	1.6879	0.2063	17216	94.64%	0.0582	1.4341	0.1790	976	5.36%	0.2488	6.1647	0.6890
	LDGT2	8127	0.0940	1.7824	0.2210	7617	93.72%	0.0759	1.3965	0.1872	510	6.28%	0.3637	7.5465	0.7258
2004 Total		48923	0.0742	1.6329	0.2001	46122	94.27%	0.0583	1.3497	0.1675	2801	5.73%	0.3368	6.2967	0.7370
2005	LDGV	33266	0.0482	1.1124	0.1445	31705	95.31%	0.0368	0.9508	0.1227	1561	4.69%	0.2804	4.3959	0.5884
	LDGT1	28242	0.0503	1.0778	0.1221	27285	96.61%	0.0471	1.0048	0.1123	957	3.39%	0.1431	3.1602	0.4009
	LDGT2	9539	0.0908	1.4225	0.1805	9141	95.83%	0.0761	1.2375	0.1563	398	4.17%	0.4277	5.6716	0.7362
2005 Total		71047	0.0548	1.1403	0.1405	68131	95.90%	0.0462	1.0109	0.1231	2916	4.10%	0.2554	4.1645	0.5470
2006	LDGV	23579	0.0481	1.2793	0.1320	22694	96.25%	0.0372	1.1203	0.1013	885	3.75%	0.3281	5.3587	0.9188
	LDGT1	17016	0.0403	1.1458	0.1215	16381	96.27%	0.0377	1.0790	0.1081	635	3.73%	0.1077	2.8703	0.4680
	LDGT2	7879	0.0670	1.0661	0.1389	7534	95.62%	0.0574	0.9259	0.1097	345	4.38%	0.2771	4.1273	0.7772
2006 Total		48474	0.0484	1.1978	0.1294	46609	96.15%	0.0406	1.0743	0.1050	1865	3.85%	0.2436	4.2836	0.7391
2007	LDGV	32697	0.0339	0.9759	0.1043	31893	97.54%	0.0306	0.9238	0.0887	804	2.46%	0.1655	3.0401	0.7201
	LDGT1	26720	0.0312	0.9658	0.0982	25790	96.52%	0.0295	0.9089	0.0920	930	3.48%	0.0791	2.5442	0.2687
	LDGT2	10868	0.0470	0.7527	0.0873	10486	96.49%	0.0439	0.7108	0.0803	382	3.51%	0.1317	1.9045	0.2794
2007 Total		70285	0.0349	0.9375	0.0993	68169	96.99%	0.0322	0.8854	0.0887	2116	3.01%	0.1214	2.6172	0.4422
2008	LDGV	16815	0.0387	1.0850	0.1089	16298	96.93%	0.0319	1.0016	0.0842	517	3.07%	0.2520	3.7159	0.8877
	LDGT1	12856	0.0293	0.9419	0.0939	12409	96.52%	0.0288	0.9179	0.0892	447	3.48%	0.0428	1.6088	0.2263
	LDGT2	6726	0.0443	1.0283	0.0813	6393	95.05%	0.0380	0.8778	0.0760	333	4.95%	0.1651	3.9169	0.1834
2008 Total		36397	0.0364	1.0240	0.0985	35100	96.44%	0.0319	0.9494	0.0845	1297	3.56%	0.1576	3.0413	0.4789
2009	LDGV	27871	0.0315	0.9860	0.0935	27360	98.17%	0.0286	0.9499	0.0807	511	1.83%	0.1871	2.9190	0.7786
	LDGT1	16965	0.0261	0.9054	0.0827	16496	97.24%	0.0259	0.8971	0.0800	469	2.76%	0.0303	1.2000	0.1788
	LDGT2	7291	0.0326	0.6598	0.0651	7082	97.13%	0.0320	0.6533	0.0644	209	2.87%	0.0526	0.8816	0.0869
2009 Total		52127	0.0299	0.9141	0.0860	50938	97.72%	0.0282	0.8915	0.0782	1189	2.28%	0.1016	1.8828	0.4204
2010	LDGV	6230	0.0310	1.0069	0.0846	6124	98.30%	0.0264	0.9537	0.0735	106	1.70%	0.2949	4.0846	0.7213
	LDGT1	4456	0.0251	0.8336	0.0722	4364	97.94%	0.0243	0.7949	0.0720	92	2.06%	0.0643	2.6681	0.0795
	LDGT2	2178	0.0356	0.7535	0.0605	2114	97.06%	0.0342	0.7232	0.0579	64	2.94%	0.0812	1.7557	0.1472
2010 Total		12864	0.0297	0.9040	0.0762	12602	97.96%	0.0270	0.8600	0.0704	262	2.04%	0.1617	3.0183	0.3557
2011	LDGV	3261	0.0284	1.0085	0.0725	3199	98.10%	0.0270	0.9914	0.0673	62	1.90%	0.0993	1.8866	0.3384
	LDGT1	1497	0.0274	0.9879	0.0595	1468	98.06%	0.0271	0.9464	0.0591	29	1.94%	0.0451	3.0892	0.0775
	LDGT2	847	0.0340	0.6446	0.0586	817	96.46%	0.0341	0.6437	0.0513	30	3.54%	0.0314	0.6702	0.2564
2011 Total		5605	0.0290	0.9480	0.0669	5484	97.84%	0.0281	0.9276	0.0628	121	2.16%	0.0695	1.8732	0.2555
2012	LDGV	2444	0.0249	1.0340	0.0596	2410	98.61%	0.0245	1.0042	0.0582	34	1.39%	0.0574	3.1437	0.1571
	LDGT1	841	0.0257	0.8975	0.0569	833	99.05%	0.0257	0.8984	0.0569	8	0.95%	0.0316	0.8040	0.0484
	LDGT2	505	0.0297	0.5568	0.0492	499	98.81%	0.0295	0.5548	0.0490	6	1.19%	0.0484	0.7284	0.0687

Vehicle		All Initial Inspections				Passing Initial Inspections					Failing Initial Inspections				
Year	Type	Total	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)	Total	Total %	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)	Total	Total %	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)
2012 Total		3790	0.0257	0.9401	0.0576	3742	98.73%	0.0254	0.9207	0.0567	48	1.27%	0.0519	2.4519	0.1279
2013	LDGV	657	0.0249	0.7899	0.0647	650	98.93%	0.0215	0.7546	0.0576	7	1.07%	0.3441	4.0676	0.7244
	LDGT1	371	0.0275	0.8036	0.0467	368	99.19%	0.0276	0.8049	0.0468	3	0.81%	0.0190	0.6530	0.0412
	LDGT2	236	0.0337	0.5802	0.0636	235	99.58%	0.0319	0.5483	0.0539	1	0.42%	0.4743	8.0657	2.3506
2013 Total		1264	0.0273	0.7547	0.0592	1253	99.13%	0.0252	0.7307	0.0537	11	0.87%	0.2673	3.4998	0.6859
2014	LDGV	21	0.0324	0.8527	0.0579	21	100.00%	0.0324	0.8527	0.0579	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	18	0.0190	0.5729	0.0484	18	100.00%	0.0190	0.5729	0.0484	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	13	0.0259	0.4596	0.0517	13	100.00%	0.0259	0.4596	0.0517	0	0.00%	0.0000	0.0000	0.0000
2014 Total		52	0.0261	0.6576	0.0531	52	100.00%	0.0261	0.6576	0.0531	0	0.00%	0.0000	0.0000	0.0000
Overall Total		894306	0.2777	3.8317	0.6113	824183	92.16%	0.2028	2.8691	0.5260	70123	7.84%	1.1583	15.1463	1.6140

Records 1 - 99 (All Records)

Summary by Vehicle Type (V1.01)

Vehicle Type	All Initial Inspections				Passing Initial Inspections					Failing Initial Inspections				
	Total	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)	Total	Total %	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)	Total	Total %	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)
LDGV	447663	0.2303	3.3013	0.5079	415861	92.90%	0.1689	2.5033	0.4441	31802	7.10%	1.0328	13.7374	1.3421
LDGT1	317283	0.2978	4.2092	0.6792	291896	92.00%	0.2246	3.2031	0.5892	25387	8.00%	1.1396	15.7774	1.7141
LDGT2	129360	0.3925	4.7413	0.8026	116426	90.00%	0.2691	3.3382	0.6601	12934	10.00%	1.5034	17.3714	2.0859
Overall Total	894306	0.2777	3.8317	0.6113	824183	92.16%	0.2028	2.8691	0.5260	70123	7.84%	1.1583	15.1463	1.6140

Appendix B

I/M240 Initial Failure Report

Initial Failure Report (V1.01)

Vehicle		Failure for Both Exhaust and Visual					Failure for Exhaust Only					Failure for Visual Only				
Year	Type	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx (gpm)	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
1982	LDGV	5	1.54%	7.0454	102.1912	1.9982	44	13.58%	4.3545	70.5583	2.0607	7	2.16%	1.9373	26.2115	2.0740
	LDGT1	14	4.76%	6.0899	107.4637	2.3027	45	15.31%	5.8441	88.3956	2.4388	12	4.08%	2.2049	20.7796	3.3499
	LDGT2	3	3.41%	6.7199	97.3498	4.4641	23	26.14%	6.0997	109.5072	2.7505	1	1.14%	2.6392	34.0373	4.4961
1982 Total		22	3.12%	6.3929	104.8862	2.5282	112	15.86%	5.3114	85.7235	2.3543	20	2.83%	2.1329	23.3437	2.9606
1983	LDGV	11	1.78%	5.6168	60.8687	2.4853	85	13.78%	3.4729	64.8653	1.8917	16	2.59%	1.3741	13.9277	2.1515
	LDGT1	9	1.83%	9.3415	144.6348	2.5017	67	13.65%	4.8312	83.8215	2.9580	21	4.28%	3.3617	33.0108	2.8566
	LDGT2	5	2.45%	5.3340	96.8434	1.5689	41	20.10%	5.6360	92.9305	3.2234	6	2.94%	2.5245	38.1252	2.7156
1983 Total		25	1.91%	6.9011	98.2194	2.3079	193	14.71%	4.4039	77.4080	2.5448	43	3.28%	2.5053	26.6237	2.5746
1984	LDGV	14	1.69%	6.9368	75.0049	1.8222	121	14.58%	4.3472	60.2662	1.9841	21	2.53%	1.4068	11.9514	2.0683
	LDGT1	26	3.99%	5.3587	87.5697	2.8950	97	14.88%	5.5490	83.4069	2.2397	34	5.21%	2.1123	24.0339	2.6456
	LDGT2	13	5.02%	7.0841	88.6848	3.8045	71	27.41%	5.4310	90.3021	2.8045	9	3.47%	2.2488	37.5939	3.5449
1984 Total		53	3.04%	6.1987	84.5242	2.8347	289	16.60%	5.0168	75.4122	2.2714	64	3.68%	1.9000	21.9762	2.5826
1985	LDGV	25	1.77%	4.2968	76.9429	1.4662	223	15.83%	2.8515	41.0073	2.0737	17	1.21%	0.9670	10.6974	2.0462
	LDGT1	20	1.85%	7.0597	95.8944	2.2719	159	14.68%	4.7841	82.4535	2.5882	32	2.95%	2.4019	22.5346	3.3780
	LDGT2	18	4.85%	7.9813	127.3654	2.5938	93	25.07%	4.5766	78.0012	3.0302	9	2.43%	2.1816	20.0363	4.1567
1985 Total		63	2.20%	6.2267	97.3657	2.0442	475	16.59%	3.8362	62.1239	2.4332	58	2.03%	1.9472	18.6774	3.1085
1986	LDGV	16	1.06%	8.8557	71.2801	2.9855	172	11.41%	3.0634	41.6656	2.2140	23	1.53%	1.0728	8.5315	2.0195
	LDGT1	12	0.97%	5.0899	60.7923	3.1107	154	12.47%	4.3594	66.9215	2.3650	41	3.32%	1.9346	19.8240	3.0642
	LDGT2	18	5.10%	9.3145	102.9463	3.0754	99	28.05%	5.1400	81.2207	2.9796	12	3.40%	2.2517	20.5412	3.3652
1986 Total		46	1.49%	8.0528	80.9353	3.0533	425	13.73%	4.0167	60.0312	2.4470	76	2.45%	1.7238	16.5198	2.7956
1987	LDGV	17	0.72%	4.9476	70.5655	1.6510	234	9.97%	3.1352	39.0309	2.1828	21	0.90%	0.9974	7.6843	1.8442
	LDGT1	17	0.92%	3.9645	76.7737	1.5089	237	12.80%	3.9219	53.5196	2.4518	41	2.22%	1.6230	15.0795	2.4307
	LDGT2	6	1.08%	5.8806	87.1797	3.4369	72	12.97%	4.5501	53.6432	3.6682	11	1.98%	1.9621	14.1531	3.1665
1987 Total		40	0.84%	4.6697	75.6961	1.8585	543	11.43%	3.6661	47.2922	2.4971	73	1.54%	1.4942	12.8125	2.3729
1988	LDGV	17	0.78%	4.8690	33.2544	2.6516	227	10.46%	3.7949	37.8642	1.9587	26	1.20%	0.9628	8.4326	1.6832
	LDGT1	15	0.79%	4.3971	55.7215	2.7600	235	12.41%	3.6878	45.8447	2.7744	35	1.85%	1.2653	12.0939	2.1054
	LDGT2	6	0.96%	7.3289	50.1686	4.9168	85	13.54%	4.3230	38.2409	4.0266	15	2.39%	1.8744	15.1728	3.0068
1988 Total		38	0.81%	5.0712	44.7937	3.0521	547	11.66%	3.8309	41.3513	2.6305	76	1.62%	1.2820	11.4490	2.1388
1989	LDGV	24	0.63%	3.7939	41.1775	2.7926	323	8.50%	3.1874	40.7837	1.9367	36	0.95%	0.8157	7.0877	1.6294
	LDGT1	27	0.93%	6.4770	58.1499	3.3626	294	10.16%	3.8737	52.1750	2.5708	46	1.59%	1.1938	13.7639	2.1472
	LDGT2	9	0.88%	6.7017	81.4276	5.2298	126	12.29%	4.7124	38.6326	3.9648	12	1.17%	1.8631	15.1592	3.0664
1989 Total		60	0.78%	5.4375	54.8526	3.4147	743	9.62%	3.7176	44.9264	2.5316	94	1.22%	1.1344	11.3852	2.0662
1990	LDGV	24	0.51%	6.0152	46.5185	2.8326	413	8.86%	2.6660	36.6624	2.4084	37	0.79%	0.8983	7.9045	1.7080
	LDGT1	21	0.89%	5.2257	42.7277	3.9545	263	11.09%	4.3049	51.5687	2.6472	43	1.81%	1.3430	11.0441	2.2616
	LDGT2	12	1.28%	6.8350	59.3938	3.0341	119	12.70%	4.4909	39.6974	3.3148	16	1.71%	1.7708	15.1084	2.9758
1990 Total		57	0.72%	5.8969	47.8325	3.2884	795	9.98%	3.4814	42.0480	2.6231	96	1.20%	1.2429	10.5114	2.1673
1991	LDGV	37	0.51%	4.4081	37.0496	2.5374	694	9.57%	2.6432	33.2647	2.2694	55	0.76%	0.6840	5.9034	1.4862
	LDGT1	19	0.45%	4.1557	51.8122	3.3168	363	8.53%	3.2972	41.7994	2.8631	35	0.82%	1.1269	12.3598	2.0606
	LDGT2	17	1.46%	3.2441	32.2911	4.4937	175	15.07%	2.9980	35.6694	3.5751	4	0.34%	1.2663	13.8012	2.4284
1991 Total		73	0.58%	4.0713	39.7838	3.1958	1232	9.72%	2.8863	36.1210	2.6298	94	0.74%	0.8737	8.6435	1.7402
1992	LDGV	26	0.37%	3.3942	29.6128	3.0097	692	9.84%	2.6391	35.4432	1.8677	53	0.75%	0.6753	7.1246	1.6326
	LDGT1	9	0.26%	2.3685	26.4528	3.8761	302	8.69%	3.3097	42.4709	2.8477	24	0.69%	0.8168	8.8227	1.7200
	LDGT2	11	0.75%	3.5594	26.3856	4.6447	210	14.25%	4.0190	30.6194	3.3001	6	0.41%	1.1968	13.8668	1.9961
1992 Total		46	0.38%	3.2331	28.2228	3.5702	1204	10.05%	3.0480	36.3646	2.3633	83	0.69%	0.7539	8.1030	1.6841
1993	LDGV	46	0.46%	3.4044	25.2802	2.6089	875	8.69%	2.0432	28.3854	2.2329	68	0.68%	0.6740	5.9682	1.5617
	LDGT1	24	0.37%	4.2075	28.5593	4.5269	468	7.14%	3.6329	37.1718	3.4580	46	0.70%	1.0206	10.2616	2.0223

Vehicle		Failure for Both Exhaust and Visual					Failure for Exhaust Only					Failure for Visual Only				
Year	Type	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx (gpm)	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
	LDGT2	8	0.36%	3.6167	34.3545	3.5233	320	14.36%	3.3855	31.1305	3.5613	20	0.90%	1.6047	14.8110	2.5249
1993 Total		78	0.41%	3.6733	27.2199	3.2928	1663	8.82%	2.7489	31.3863	2.8333	134	0.71%	0.9319	8.7619	1.8636
1994	LDGV	36	0.34%	4.3891	23.8700	2.8429	822	7.72%	2.3452	27.6072	1.9910	73	0.69%	0.5188	5.3380	1.1928
	LDGT1	31	0.43%	2.8538	25.4463	4.3831	633	8.88%	2.9345	32.5857	3.0320	56	0.79%	0.8638	7.9190	1.8619
	LDGT2	14	0.44%	3.3486	37.7526	3.0081	512	16.07%	3.0124	30.0913	3.2629	32	1.00%	0.8990	10.0595	2.0394
1994 Total		81	0.39%	3.6217	26.8728	3.4609	1967	9.38%	2.7085	29.8559	2.6571	161	0.77%	0.7144	7.1742	1.5938
1995	LDGV	43	0.26%	2.4992	17.8265	3.0033	1102	6.71%	1.9434	23.4801	1.9752	120	0.73%	0.4543	4.7082	1.0247
	LDGT1	23	0.24%	1.9495	18.2184	4.5032	851	9.04%	2.4487	28.1108	3.4354	49	0.52%	0.8418	7.8944	1.7380
	LDGT2	25	0.50%	3.3894	26.9169	3.7920	761	15.35%	2.9037	27.6925	3.4245	25	0.50%	1.0275	10.9531	2.1612
1995 Total		91	0.30%	2.6048	20.4229	3.5991	2714	8.81%	2.3711	26.1133	2.8394	194	0.63%	0.6260	6.3177	1.3513
1996	LDGV	49	0.33%	3.2295	26.0413	2.3199	901	6.07%	1.6899	21.9072	1.9313	105	0.71%	0.3399	3.8687	0.9176
	LDGT1	21	0.23%	1.8967	25.8657	4.3963	622	6.88%	1.7660	24.8353	3.0814	67	0.74%	0.4362	5.6717	1.6813
	LDGT2	6	0.16%	4.6264	19.1306	5.1297	293	7.92%	2.3982	25.7448	3.1893	21	0.57%	0.5348	6.9108	1.6992
1996 Total		76	0.28%	2.9715	25.4472	3.1155	1816	6.58%	1.8302	23.5293	2.5282	193	0.70%	0.3945	4.8256	1.2677
1997	LDGV	51	0.23%	1.9026	15.3830	2.7882	1059	4.83%	1.5275	23.7311	1.8065	161	0.73%	0.3695	4.4009	0.9615
	LDGT1	17	0.11%	1.7625	16.8529	3.9039	1095	7.05%	1.4481	20.3572	3.0525	75	0.48%	0.3910	4.9608	1.2998
	LDGT2	28	0.48%	1.6440	19.4292	4.0012	523	8.93%	1.9426	20.0012	3.3151	27	0.46%	0.3899	5.9109	1.3891
1997 Total		96	0.22%	1.8024	16.8234	3.3395	2677	6.18%	1.5762	21.6224	2.6109	263	0.61%	0.3777	4.7156	1.1019
1998	LDGV	60	0.29%	2.4769	14.2472	2.1333	1105	5.31%	1.3055	21.3488	1.7053	123	0.59%	0.3065	3.6275	0.6990
	LDGT1	15	0.10%	1.6639	12.3906	3.8699	1096	7.07%	1.2854	20.0484	2.8840	78	0.50%	0.3842	5.6902	1.1998
	LDGT2	17	0.31%	3.4367	17.4702	3.1117	549	9.94%	1.6966	18.7325	3.1163	16	0.29%	0.4254	5.1183	1.2180
1998 Total		92	0.22%	2.5217	14.5401	2.5972	2750	6.57%	1.3756	20.3082	2.4568	217	0.52%	0.3432	4.4789	0.9173
1999	LDGV	64	0.22%	1.7537	21.5340	2.1079	1331	4.66%	1.1168	17.5300	1.9181	138	0.48%	0.2894	3.6380	0.6911
	LDGT1	24	0.12%	1.4833	16.4590	3.8292	1093	5.38%	1.0067	15.7747	2.5357	78	0.38%	0.2678	3.8697	0.7613
	LDGT2	21	0.21%	1.3770	20.9695	4.1903	941	9.48%	1.3387	18.0531	2.7912	26	0.26%	0.3123	4.3807	0.8242
1999 Total		109	0.19%	1.6216	20.3078	2.8881	3365	5.72%	1.1431	17.1061	2.3629	242	0.41%	0.2849	3.7924	0.7280
2000	LDGV	64	0.23%	1.8327	19.5165	2.3830	1236	4.46%	1.1127	16.9945	2.1403	155	0.56%	0.2319	3.4679	0.5848
	LDGT1	23	0.12%	1.0250	14.5017	3.5093	803	4.23%	1.0546	18.3250	2.5271	72	0.38%	0.2803	3.5969	0.7710
	LDGT2	21	0.29%	1.5602	14.9412	3.7453	431	5.95%	1.5050	21.7075	2.6499	32	0.44%	0.2738	3.7257	0.8739
2000 Total		108	0.20%	1.6077	17.5589	2.8878	2470	4.58%	1.1623	18.2494	2.3550	259	0.48%	0.2505	3.5356	0.6723
2001	LDGV	62	0.19%	1.9190	13.2901	2.5862	929	2.78%	1.2234	16.1170	2.1200	180	0.54%	0.1931	2.9843	0.4562
	LDGT1	19	0.08%	0.8629	13.5517	3.4977	522	2.29%	0.9956	21.4083	2.4328	68	0.30%	0.2113	3.4889	0.5980
	LDGT2	7	0.07%	1.9197	26.3811	4.0470	340	3.53%	1.4848	20.9909	2.6507	25	0.26%	0.2207	3.7966	0.8996
2001 Total		88	0.13%	1.6910	14.3879	2.8992	1791	2.72%	1.2066	18.5844	2.3119	273	0.41%	0.2002	3.1844	0.5321
2002	LDGV	50	0.18%	1.6558	14.5569	2.9318	696	2.47%	1.1287	15.9390	2.1853	167	0.59%	0.1413	3.2417	0.3741
	LDGT1	16	0.08%	1.9959	47.4643	2.8305	489	2.47%	1.1121	26.1605	2.3138	49	0.25%	0.1987	3.9446	0.6894
	LDGT2	5	0.08%	0.5907	12.0667	2.4614	201	3.14%	0.8722	16.4311	2.7279	25	0.39%	0.2113	3.1105	0.5988
2002 Total		71	0.13%	1.6575	21.7973	2.8758	1386	2.55%	1.0856	19.6166	2.3093	241	0.44%	0.1602	3.3710	0.4615
2003	LDGV	43	0.13%	1.3489	12.9640	2.9015	493	1.47%	1.1731	15.6514	2.2349	97	0.29%	0.1551	2.6175	0.3478
	LDGT1	6	0.02%	1.4863	41.2090	2.2150	277	1.13%	1.1226	27.5867	2.1298	29	0.12%	0.1327	2.2520	0.3978
	LDGT2	9	0.10%	1.4391	14.7580	4.5174	136	1.44%	2.0011	32.3364	2.4933	22	0.23%	0.1699	2.8343	0.5440
2003 Total		58	0.09%	1.3771	16.1643	3.0812	906	1.34%	1.2820	21.8051	2.2416	148	0.22%	0.1529	2.5781	0.3868
2004	LDGV	29	0.13%	1.6883	20.9610	3.2176	355	1.57%	1.1549	16.8367	2.1696	72	0.32%	0.1260	2.1621	0.3117
	LDGT1	10	0.05%	2.1534	15.3319	2.5225	230	1.26%	0.7240	20.2602	2.1970	36	0.20%	0.1090	2.0474	0.2286
	LDGT2	5	0.06%	1.5110	24.7009	3.5859	101	1.24%	1.3452	29.3607	2.5928	22	0.27%	0.1695	3.1818	0.3305
2004 Total		44	0.09%	1.7739	20.1067	3.1015	686	1.40%	1.0385	19.8284	2.2411	130	0.27%	0.1286	2.3029	0.2919
2005	LDGV	37	0.11%	1.6933	13.0862	3.0934	318	0.96%	1.0088	16.1607	2.0164	60	0.18%	0.1310	2.4222	0.2730

Vehicle		Failure for Both Exhaust and Visual					Failure for Exhaust Only					Failure for Visual Only				
Year	Type	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx (gpm)	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
	LDGT1	6	0.02%	0.8569	12.5308	3.2047	108	0.38%	0.7140	16.4581	2.2468	33	0.12%	0.1025	1.7154	0.2302
	LDGT2	4	0.04%	6.5105	29.2320	4.2113	94	0.99%	1.2569	18.6470	2.4078	12	0.13%	0.0482	0.8619	0.1011
2005 Total		47	0.07%	1.9965	14.3894	3.2028	520	0.73%	0.9924	16.6719	2.1350	105	0.15%	0.1126	2.0218	0.2399
2006	LDGV	22	0.09%	2.1147	15.4500	3.5654	282	1.20%	0.7744	13.2256	2.3782	33	0.14%	0.1855	3.1835	0.2695
	LDGT1	1	0.01%	0.7129	10.1185	2.1858	82	0.48%	0.5057	13.3789	2.7373	18	0.11%	0.0767	1.5221	0.1890
	LDGT2	3	0.04%	2.3873	30.6848	5.2684	67	0.85%	1.0456	15.7543	3.2679	13	0.16%	0.0901	1.3124	0.1570
2006 Total		26	0.05%	2.0922	17.0028	3.7089	431	0.89%	0.7655	13.6479	2.5848	64	0.13%	0.1355	2.3362	0.2240
2007	LDGV	11	0.03%	1.5698	18.5418	3.3900	185	0.57%	0.5215	8.5663	2.6253	30	0.09%	0.0869	1.9359	0.1576
	LDGT1	0	0.00%	0.0000	0.0000	0.0000	92	0.34%	0.5087	15.8148	2.0473	20	0.07%	0.0815	2.0846	0.1397
	LDGT2	2	0.02%	2.1214	14.6958	4.7620	20	0.18%	1.3964	19.9616	3.4369	3	0.03%	0.1195	1.3747	0.0510
2007 Total		13	0.02%	1.6547	17.9501	3.6011	297	0.42%	0.5764	11.5790	2.5009	53	0.08%	0.0867	1.9602	0.1448
2008	LDGV	8	0.05%	1.5585	16.7473	3.9654	146	0.87%	0.6981	8.9614	2.7064	23	0.14%	0.2451	2.9760	0.2491
	LDGT1	0	0.00%	0.0000	0.0000	0.0000	31	0.24%	0.2692	10.9222	2.4318	8	0.06%	0.0170	0.8348	0.0547
	LDGT2	1	0.01%	1.9269	27.3082	4.0342	41	0.61%	0.9505	21.6420	0.7379	4	0.06%	0.2848	3.4681	0.3705
2008 Total		9	0.02%	1.5995	17.9207	3.9730	218	0.60%	0.6846	11.6251	2.2971	35	0.10%	0.1975	2.5429	0.2185
2009	LDGV	8	0.03%	1.7292	15.6557	3.1974	122	0.44%	0.5384	6.9474	2.7625	25	0.09%	0.1568	2.7642	0.2900
	LDGT1	0	0.00%	0.0000	0.0000	0.0000	19	0.11%	0.1930	8.3202	3.0210	4	0.02%	0.0228	0.6597	0.0626
	LDGT2	0	0.00%	0.0000	0.0000	0.0000	1	0.01%	3.2654	25.1506	4.8996	2	0.03%	0.0387	0.7040	0.0344
2009 Total		8	0.02%	1.7292	15.6557	3.1974	142	0.27%	0.5114	7.2593	2.8121	31	0.06%	0.1319	2.3597	0.2442
2010	LDGV	6	0.10%	1.3474	18.2452	2.5748	22	0.35%	0.9427	10.5111	2.4653	2	0.03%	0.0449	1.2910	0.1404
	LDGT1	0	0.00%	0.0000	0.0000	0.0000	2	0.04%	1.7631	85.5275	1.5514	3	0.07%	0.0252	0.5814	0.0555
	LDGT2	0	0.00%	0.0000	0.0000	0.0000	2	0.09%	1.6372	36.1015	3.2070	2	0.09%	0.0216	0.2537	0.1615
2010 Total		6	0.05%	1.3474	18.2452	2.5748	26	0.20%	1.0593	18.2501	2.4520	7	0.05%	0.0298	0.6905	0.1100
2011	LDGV	0	0.00%	0.0000	0.0000	0.0000	6	0.18%	0.8129	11.4417	2.7611	4	0.12%	0.0176	0.6654	0.1408
	LDGT1	0	0.00%	0.0000	0.0000	0.0000	1	0.07%	0.3317	57.3559	0.0032	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	0	0.00%	0.0000	0.0000	0.0000	1	0.12%	0.0281	0.2298	6.5993	3	0.35%	0.0316	0.5226	0.0429
2011 Total		0	0.00%	0.0000	0.0000	0.0000	8	0.14%	0.6546	15.7795	2.8962	7	0.12%	0.0236	0.6042	0.0988
2012	LDGV	0	0.00%	0.0000	0.0000	0.0000	3	0.12%	0.4370	24.4359	1.0192	5	0.20%	0.0200	0.8348	0.0787
	LDGT1	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	1	0.20%	0.1478	0.9717	0.2106
2012 Total		0	0.00%	0.0000	0.0000	0.0000	3	0.08%	0.4370	24.4359	1.0192	6	0.16%	0.0413	0.8576	0.1007
2013	LDGV	1	0.15%	2.3401	24.9328	4.2518	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	1	0.42%	0.4743	8.0657	2.3506	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
2013 Total		2	0.16%	1.4072	16.4993	3.3012	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
2014	LDGV	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
2014 Total		0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
Grand Total		1626	0.18%	3.2741	34.2076	3.0457	32394	3.62%	1.9897	26.6006	2.5026	3540	0.40%	0.5671	6.2890	1.1406

Records 1 - 99 (All Records)

Summary by Vehicle Type (V1.01)

Vehicle Type	Failure for Both Exhaust and Visual					Failure for Exhaust Only					Failure for Visual Only				
	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx (gpm)	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
LDGV	906	0.20%	2.8966	26.2420	2.6297	15216	3.40%	1.7484	23.9762	2.0535	1953	0.44%	0.3810	4.3884	0.8349
LDGT1	425	0.13%	3.5342	44.0033	3.4369	10730	3.38%	2.0712	29.4871	2.7824	1153	0.36%	0.7913	8.5454	1.4888
LDGT2	295	0.23%	4.0588	44.5591	3.7595	6448	4.98%	2.4236	27.9903	3.0966	434	0.34%	0.8092	8.8476	1.5915
Grand Total	1626	0.18%	3.2741	34.2076	3.0457	32394	3.62%	1.9897	26.6006	2.5026	3540	0.40%	0.5671	6.2890	1.1406

Appendix C

I/M240 Initial Exhaust Failure Report

Initial Exhaust Failure Report (V1.01)

Vehicle		HC Failures					CO Failures					NOX Failures				
Year	Type	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
1982	LDGV	29	59.18%	6.2357	89.7540	1.6023	36	73.47%	5.1941	93.2217	1.2422	8	16.33%	2.0431	19.2137	5.7485
	LDGT1	24	40.68%	9.4198	104.0793	2.4579	46	77.97%	5.4212	109.6931	1.4676	8	13.56%	3.5648	23.0048	7.4169
	LDGT2	11	42.31%	9.5832	125.7804	2.7487	20	76.92%	6.3771	130.5273	1.7712	5	19.23%	5.1831	28.5057	7.2689
1982 Total		64	47.76%	8.0051	101.3180	2.1202	102	76.12%	5.5285	107.9648	1.4476	21	15.67%	3.3704	22.8703	6.7461
1983	LDGV	40	41.67%	6.3593	94.9566	1.3619	79	82.29%	3.7993	74.8735	1.5022	13	13.54%	1.8226	22.3839	5.8427
	LDGT1	23	30.26%	9.8608	123.3131	1.2986	55	72.37%	6.2596	118.4863	1.2240	18	23.68%	2.2256	14.3558	8.0823
	LDGT2	16	34.78%	10.1589	105.0097	2.8920	36	78.26%	5.3064	111.5252	1.8405	11	23.91%	4.6605	33.6567	7.7191
1983 Total		79	36.24%	8.1483	105.2484	1.6534	170	77.98%	4.9144	96.7451	1.4838	42	19.27%	2.7386	21.8957	7.2940
1984	LDGV	81	60.00%	6.5356	77.2294	1.6778	102	75.56%	5.1706	76.8858	1.4022	17	12.59%	1.5277	12.3403	5.1427
	LDGT1	47	38.21%	9.7242	113.5765	1.8975	94	76.42%	5.4353	104.3702	1.3126	20	16.26%	3.7240	18.1638	7.1780
	LDGT2	34	40.48%	10.3284	116.8064	2.4222	59	70.24%	6.2706	118.1752	1.6133	17	20.24%	2.2527	19.6973	7.4267
1984 Total		162	47.37%	8.2567	96.0808	1.8978	255	74.56%	5.5227	96.5705	1.4180	54	15.79%	2.5694	16.8132	6.6156
1985	LDGV	112	45.16%	5.0214	60.2044	2.0325	191	77.02%	3.1239	55.1604	1.2785	39	15.73%	1.5446	8.6430	5.3517
	LDGT1	76	42.46%	8.2687	115.5857	1.8195	147	82.12%	5.5857	98.7415	1.6190	30	16.76%	2.2135	17.0646	7.3596
	LDGT2	39	35.14%	10.2365	124.4737	2.5148	86	77.48%	5.6643	106.0963	1.8918	23	20.72%	2.7478	24.2531	7.5935
1985 Total		227	42.19%	7.0046	89.7880	2.0440	424	78.81%	4.4926	80.6012	1.5210	92	17.10%	2.0635	15.2917	6.5669
1986	LDGV	90	47.87%	5.8562	60.3616	2.1189	131	69.68%	3.9037	59.0967	1.3541	40	21.28%	2.1925	11.3541	5.5645
	LDGT1	68	40.96%	7.3906	82.7825	1.9578	131	78.92%	4.5432	80.0395	1.6566	21	12.65%	1.9010	13.8951	7.1087
	LDGT2	56	47.86%	9.6209	105.2651	2.9929	93	79.49%	5.9486	101.8351	2.1887	16	13.68%	2.0337	19.5323	7.6529
1986 Total		214	45.44%	7.3289	79.2364	2.2964	355	75.37%	4.6754	78.0211	1.6844	77	16.35%	2.0800	13.7465	6.4196
1987	LDGV	116	46.22%	5.3767	57.4764	1.8214	169	67.33%	3.2849	56.6421	1.2999	57	22.71%	1.6888	10.1277	4.8370
	LDGT1	98	38.58%	7.0938	73.2033	2.1882	196	77.17%	4.0413	66.8529	1.5592	37	14.57%	1.9389	14.9231	6.4774
	LDGT2	37	47.44%	7.5578	80.7142	2.6058	45	57.69%	5.9435	86.1048	2.5342	24	30.77%	2.1715	17.4449	6.8516
1987 Total		251	43.05%	6.3687	67.0422	2.0802	410	70.33%	3.9383	64.7571	1.5593	118	20.24%	1.8654	13.1196	5.7611
1988	LDGV	155	63.52%	5.4097	43.8923	1.9955	156	63.93%	4.5733	53.2178	1.2832	36	14.75%	1.7038	10.5984	4.9792
	LDGT1	122	48.80%	5.7006	61.2176	2.4559	177	70.80%	4.0124	60.1557	1.9075	59	23.60%	2.3685	16.6884	6.3071
	LDGT2	43	47.25%	7.6464	52.4502	3.4613	51	56.04%	5.4337	60.2246	2.9549	37	40.66%	2.7995	16.9137	6.3849
1988 Total		320	54.70%	5.8212	51.6475	2.3680	384	65.64%	4.4291	57.3463	1.7930	132	22.56%	2.3080	15.0906	5.9668
1989	LDGV	219	63.11%	4.4175	47.5847	1.9528	224	64.55%	3.5226	57.2373	1.2091	65	18.73%	1.8857	12.5152	4.7498
	LDGT1	146	45.48%	6.7888	73.3694	2.1182	222	69.16%	4.5213	69.7946	1.6423	69	21.50%	2.1157	16.0132	6.3691
	LDGT2	73	54.07%	7.6115	59.4137	3.3365	70	51.85%	6.2173	68.2300	2.7777	59	43.70%	2.9615	16.8384	6.3011
1989 Total		438	54.55%	5.7403	58.1511	2.2385	516	64.26%	4.3178	64.1311	1.6083	193	24.03%	2.2968	15.0874	5.8029
1990	LDGV	220	50.34%	4.5732	51.1322	2.0040	255	58.35%	3.5405	56.9932	1.3905	158	36.16%	1.6740	11.7870	4.4912
	LDGT1	135	47.54%	7.2698	70.2760	2.4549	205	72.18%	4.9134	65.3930	1.7171	66	23.24%	2.1754	14.1918	6.0631
	LDGT2	72	54.96%	7.1942	55.9497	2.2956	73	55.73%	5.8756	64.6389	2.1342	41	31.30%	2.1171	12.9735	6.2363
1990 Total		427	50.12%	5.8677	57.9970	2.1957	533	62.56%	4.3884	61.2710	1.6180	265	31.10%	1.8674	12.5695	5.1527
1991	LDGV	518	70.86%	3.4922	39.4696	2.0190	351	48.02%	3.5150	58.3388	1.3076	210	28.73%	1.7832	12.1458	4.3680
	LDGT1	194	50.79%	5.1286	54.4475	2.3978	219	57.33%	4.1061	63.6413	1.6534	117	30.63%	1.8000	13.8963	5.5551
	LDGT2	95	49.48%	4.6455	47.9987	2.8698	94	48.96%	3.6786	58.6885	2.5786	78	40.63%	1.7522	14.7473	5.7935
1991 Total		807	61.84%	4.0213	44.0743	2.2102	664	50.88%	3.7331	60.1372	1.6016	405	31.03%	1.7821	13.1525	4.9855
1992	LDGV	441	61.42%	3.8088	43.6907	1.8141	485	67.55%	2.8811	47.8267	1.2658	145	20.19%	2.1686	10.9075	4.3906
	LDGT1	176	56.59%	4.6850	53.3282	2.5148	174	55.95%	3.7891	62.7069	1.6248	90	28.94%	2.0102	15.9095	5.6578
	LDGT2	136	61.54%	5.5596	35.2519	2.8206	103	46.61%	4.8216	46.4834	2.4195	78	35.29%	3.1134	17.9824	5.6634

Vehicle		HC Failures					CO Failures					NOX Failures				
Year	Type	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
1992 Total		753	60.24%	4.3298	44.4191	2.1596	762	60.96%	3.3507	51.0429	1.5037	313	25.04%	2.3585	14.1089	5.0722
1993	LDGV	501	54.40%	3.2401	36.9647	1.9665	539	58.52%	2.4125	42.4519	1.3696	269	29.21%	1.3452	9.4657	4.4869
	LDGT1	259	52.64%	5.6000	47.5767	3.0545	219	44.51%	4.9797	63.9534	1.9463	221	44.92%	2.1499	16.9120	5.7282
	LDGT2	193	58.84%	4.7024	37.1560	2.7231	151	46.04%	4.1474	48.5411	2.4677	116	35.37%	1.9179	16.9671	5.9921
1993 Total		953	54.74%	4.1776	39.8875	2.4154	909	52.21%	3.3192	48.6437	1.6909	606	34.81%	1.7483	13.6172	5.2277
1994	LDGV	543	63.29%	3.4730	33.7893	1.6871	457	53.26%	3.2812	44.7537	1.2089	264	30.77%	1.1216	9.8438	4.0416
	LDGT1	348	52.41%	4.5514	42.5427	2.8500	375	56.48%	3.6919	47.3110	2.1284	272	40.96%	1.9767	15.3599	5.1650
	LDGT2	307	58.37%	4.4083	35.8583	3.0628	323	61.41%	3.7258	41.0679	2.6042	203	38.59%	1.9789	17.7543	5.3706
1994 Total		1,198	58.50%	4.0260	36.8622	2.3774	1,155	56.40%	3.5389	44.5533	1.8976	739	36.08%	1.6718	14.0470	4.8201
1995	LDGV	670	58.52%	2.9561	30.4702	1.7418	524	45.76%	2.5721	42.7832	1.1022	474	41.40%	1.1724	8.8140	3.4886
	LDGT1	372	42.56%	4.2696	39.4085	3.0947	395	45.19%	3.3168	47.2160	1.9826	438	50.11%	1.5958	13.2301	5.2886
	LDGT2	466	59.29%	4.1317	32.6570	3.2092	448	57.00%	3.6165	37.9408	2.7568	341	43.38%	2.2126	18.0701	5.4251
1995 Total		1,508	53.76%	3.6434	33.3509	2.5290	1,367	48.73%	3.1296	42.4771	1.8988	1,253	44.67%	1.6035	12.8767	4.6448
1996	LDGV	443	46.63%	3.1960	34.1117	1.5435	384	40.42%	2.5773	45.0343	1.0570	503	52.95%	1.0314	8.4833	2.9680
	LDGT1	321	49.92%	2.9418	36.3938	2.8687	323	50.23%	2.4570	40.8047	2.2589	325	50.54%	1.2100	11.0639	4.6735
	LDGT2	198	66.22%	3.3618	31.1892	3.2752	187	62.54%	3.1371	35.3188	3.1572	134	44.82%	2.0243	15.6397	5.0348
1996 Total		962	50.85%	3.1453	34.2717	2.3421	894	47.25%	2.6509	41.4740	1.9306	962	50.85%	1.2300	10.3520	3.8321
1997	LDGV	460	41.44%	3.0022	37.5662	1.5186	515	46.40%	2.1167	42.7315	0.9981	567	51.08%	0.9733	8.6329	2.9253
	LDGT1	430	38.67%	2.9234	31.1721	3.0178	551	49.55%	2.0034	32.2393	2.2926	662	59.53%	1.1425	11.1682	4.2099
	LDGT2	260	47.19%	3.4381	26.1414	3.4756	302	54.81%	2.7215	28.9407	3.1722	333	60.44%	1.4653	14.0136	4.4386
1997 Total		1,150	41.47%	3.0713	32.5924	2.5216	1,368	49.33%	2.2046	35.4610	1.9994	1,562	56.33%	1.1499	10.8545	3.7924
1998	LDGV	412	35.36%	3.0106	37.3144	1.4138	478	41.03%	1.9753	41.7859	0.9407	692	59.40%	0.8788	9.0835	2.4953
	LDGT1	329	29.61%	3.3084	40.2510	2.7739	407	36.63%	2.3322	40.4790	2.1891	805	72.46%	0.8379	10.8386	3.5521
	LDGT2	236	41.70%	3.4663	26.7368	3.2570	292	51.59%	2.6653	28.5366	2.9706	396	69.96%	1.3635	13.3403	3.9000
1998 Total		977	34.38%	3.2210	35.7482	2.3171	1,177	41.41%	2.2699	38.0470	1.8760	1,893	66.61%	0.9628	10.7203	3.2386
1999	LDGV	442	31.68%	2.7179	34.4005	1.6779	446	31.97%	1.9280	41.8853	0.9398	951	68.17%	0.7754	7.8564	2.5418
	LDGT1	275	24.62%	2.8620	32.1025	2.8122	371	33.21%	1.8980	33.6618	1.9576	837	74.93%	0.7046	9.1037	3.1523
	LDGT2	308	32.02%	3.0899	34.5286	3.0486	338	35.14%	2.5639	37.0724	2.7131	775	80.56%	1.0454	12.0159	3.2769
1999 Total		1,025	29.50%	2.8684	33.8225	2.3941	1,155	33.25%	2.1045	37.8353	1.7857	2,563	73.78%	0.8339	9.5215	2.9635
2000	LDGV	398	30.62%	2.8669	33.5737	2.0551	392	30.15%	2.1088	41.9132	1.0005	943	72.54%	0.7879	7.9387	2.7706
	LDGT1	207	25.06%	3.1116	40.4734	2.4095	303	36.68%	1.9975	38.1974	1.6438	586	70.94%	0.7037	9.2126	3.2717
	LDGT2	130	28.76%	4.0762	47.9150	2.3884	153	33.85%	3.1226	47.4538	2.1602	344	76.11%	0.8212	10.8594	3.3265
2000 Total		735	28.51%	3.1497	38.0534	2.2138	848	32.89%	2.2519	41.5852	1.4396	1,873	72.65%	0.7677	8.8737	3.0295
2001	LDGV	304	30.68%	3.1797	28.9609	2.0585	297	29.97%	1.8320	38.6171	0.9457	682	68.82%	0.8094	7.5314	2.8942
	LDGT1	108	19.96%	3.5747	53.5044	1.6089	229	42.33%	1.6846	42.6442	0.9375	333	61.55%	0.4982	8.3445	3.6574
	LDGT2	113	32.56%	3.5992	42.0441	2.6516	129	37.18%	2.8950	43.5042	2.4020	255	73.49%	0.8610	11.4472	3.4305
2001 Total		525	27.94%	3.3512	36.8259	2.0936	655	34.86%	1.9898	40.9875	1.2297	1,270	67.59%	0.7382	8.5308	3.2020
2002	LDGV	222	29.76%	2.9738	30.5525	1.9028	225	30.16%	1.6733	39.0212	1.0799	532	71.31%	0.7219	7.6357	2.9593
	LDGT1	144	28.51%	3.0417	53.7423	2.2180	250	49.50%	1.6694	48.0839	1.1067	290	57.43%	0.7523	8.8555	3.6774
	LDGT2	46	22.33%	2.4247	41.4613	2.5012	51	24.76%	1.8425	43.2353	2.5764	176	85.44%	0.6559	10.7211	3.0650
2002 Total		412	28.28%	2.9362	39.8757	2.0798	526	36.10%	1.6879	43.7372	1.2377	998	68.50%	0.7191	8.5342	3.1866
2003	LDGV	155	28.92%	3.0462	27.5853	2.3278	157	29.29%	1.7858	37.3236	1.2509	396	73.88%	0.9956	8.6734	2.9595
	LDGT1	75	26.50%	3.3169	63.3790	1.5847	151	53.36%	1.7270	47.6549	1.0155	153	54.06%	0.5979	9.2668	3.5300
	LDGT2	57	39.31%	4.2860	62.7820	1.9587	61	42.07%	3.6895	62.7919	2.1899	101	69.66%	0.7704	13.1354	3.5364

Vehicle		HC Failures					CO Failures					NOX Failures				
Year	Type	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
2003 Total		287	29.77%	3.3632	43.9294	2.0603	369	38.28%	2.0764	45.7615	1.3098	650	67.43%	0.8670	9.5064	3.1835
2004	LDGV	120	31.25%	2.8521	30.0539	2.2691	138	35.94%	1.6218	36.5877	1.4271	275	71.61%	0.9226	9.5542	2.9985
	LDGT1	51	21.25%	2.4584	45.1443	1.8841	117	48.75%	0.9383	35.6287	0.8226	131	54.58%	0.5780	8.1745	3.7528
	LDGT2	38	35.85%	2.9379	54.9815	2.7412	58	54.72%	2.0221	46.3680	2.0996	66	62.26%	0.8023	11.5323	3.8567
2004 Total		209	28.63%	2.7716	38.2685	2.2610	313	42.88%	1.4405	38.0415	1.3258	472	64.66%	0.8102	9.4479	3.3279
2005	LDGV	104	29.30%	2.6863	23.9770	2.1702	146	41.13%	1.4489	30.3711	1.1708	230	64.79%	0.8388	8.5385	3.1110
	LDGT1	19	16.67%	2.5907	30.4140	2.1735	43	37.72%	0.8344	34.1061	0.6796	72	63.16%	0.5996	6.3623	3.4137
	LDGT2	27	27.55%	3.7024	34.0089	2.9596	45	45.92%	2.2461	29.9907	2.2148	74	75.51%	1.0958	13.8946	2.9905
2005 Total		150	26.46%	2.8571	26.5981	2.3127	234	41.27%	1.4893	30.9843	1.2813	376	66.31%	0.8436	9.1759	3.1453
2006	LDGV	75	24.67%	2.7295	31.4551	2.5486	88	28.95%	1.7725	36.9289	1.7618	242	79.61%	0.6904	6.7316	3.0229
	LDGT1	12	14.46%	2.0759	37.8993	2.8786	23	27.71%	1.0199	37.6031	0.9776	62	74.70%	0.3714	5.0492	3.5900
	LDGT2	18	25.71%	2.4921	25.8604	3.8435	33	47.14%	1.5815	24.8140	3.0737	60	85.71%	1.0430	14.2166	3.7529
2006 Total		105	22.98%	2.6141	31.2325	2.8083	144	31.51%	1.6085	34.2603	1.9372	364	79.65%	0.6942	7.6789	3.2399
2007	LDGV	39	19.90%	1.8762	21.8439	2.5440	40	20.41%	1.3428	28.6509	2.0431	171	87.24%	0.4657	5.9682	3.0016
	LDGT1	11	11.96%	3.0043	42.6048	1.4956	37	40.22%	0.5896	36.1603	0.4868	54	58.70%	0.1870	3.0610	3.3025
	LDGT2	5	22.73%	4.1256	56.6251	3.4989	5	22.73%	4.0699	57.2903	3.3329	20	90.91%	0.9106	10.2840	3.8969
2007 Total		55	17.74%	2.3063	29.1580	2.4212	82	26.45%	1.1692	33.7856	1.4195	245	79.03%	0.4406	5.6797	3.1410
2008	LDGV	30	19.48%	3.0203	22.5364	3.5536	40	25.97%	1.5617	28.8884	2.5784	135	87.66%	0.5388	6.1979	3.1270
	LDGT1	2	6.45%	2.8265	98.4748	0.0329	5	16.13%	1.2536	57.4724	0.0954	26	83.87%	0.0799	1.9703	2.8811
	LDGT2	6	14.29%	5.7299	45.2281	2.2015	37	88.10%	0.5905	24.6461	0.6397	6	14.29%	0.9196	12.7474	3.9517
2008 Total		38	16.74%	3.4379	30.1160	3.1548	82	36.12%	1.1047	28.7171	1.5522	167	73.57%	0.4810	5.7750	3.1183
2009	LDGV	24	18.46%	2.5546	21.0961	2.3742	28	21.54%	1.5968	27.6136	2.2738	111	85.38%	0.3968	5.3108	3.2290
	LDGT1	0	0.00%	0.0000	0.0000	0.0000	6	31.58%	0.5615	25.1486	0.0849	13	68.42%	0.0230	0.5532	4.3762
	LDGT2	1	100.00%	3.2654	25.1506	4.8996	1	100.00%	3.2654	25.1506	4.8996	1	100.00%	3.2654	25.1506	4.8996
2009 Total		25	16.67%	2.5831	21.2583	2.4753	35	23.33%	1.4670	27.1207	1.9736	125	83.33%	0.3808	4.9747	3.3616
2010	LDGV	8	28.57%	2.6805	15.7070	3.2485	11	39.29%	1.8608	21.7575	2.7421	23	82.14%	0.8303	10.4207	2.9180
	LDGT1	2	100.00%	1.7631	85.5275	1.5514	1	50.00%	2.1272	160.1023	0.0110	1	50.00%	1.3989	10.9526	3.0918
	LDGT2	1	50.00%	2.1364	23.3197	6.2694	2	100.00%	1.6372	36.1015	3.2070	1	50.00%	2.1364	23.3197	6.2694
2010 Total		11	34.38%	2.4643	29.0937	3.2145	14	43.75%	1.8479	33.6884	2.6134	25	78.13%	0.9053	10.9580	3.0590
2011	LDGV	1	16.67%	2.6622	22.8411	4.1754	2	33.33%	1.6109	19.9913	2.9287	6	100.00%	0.8129	11.4417	2.7611
	LDGT1	0	0.00%	0.0000	0.0000	0.0000	1	100.00%	0.3317	57.3559	0.0032	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	1	100.00%	0.0281	0.2298	6.5993
2011 Total		1	12.50%	2.6622	22.8411	4.1754	3	37.50%	1.1845	32.4461	1.9535	7	87.50%	0.7008	9.8400	3.3094
2012	LDGV	0	0.00%	0.0000	0.0000	0.0000	2	66.67%	0.6544	36.6419	0.0311	1	33.33%	0.0024	0.0240	2.9955
	LDGT1	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
2012 Total		0	0.00%	0.0000	0.0000	0.0000	2	66.67%	0.6544	36.6419	0.0311	1	33.33%	0.0024	0.0240	2.9955
2013	LDGV	1	100.00%	2.3401	24.9328	4.2518	1	100.00%	2.3401	24.9328	4.2518	1	100.00%	2.3401	24.9328	4.2518
	LDGT1	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	1	100.00%	0.4743	8.0657	2.3506
2013 Total		1	50.00%	2.3401	24.9328	4.2518	1	50.00%	2.3401	24.9328	4.2518	2	100.00%	1.4072	16.4993	3.3012
2014	LDGV	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000

Vehicle		HC Failures					CO Failures					NOX Failures				
Year	Type	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
2014 Total		0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
Grand Total		14,069	41.36%	3.9426	41.7992	2.3185	15,908	46.76%	2.9750	48.2619	1.6849	17,865	52.51%	1.1036	10.4610	3.6995

Records 1 - 99 (All Records)

Summary by Vehicle Type (V1.01)

Vehicle Type	HC Failures					CO Failures					NOX Failures				
	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
LDGV	6,973	43.25%	3.4454	37.8359	1.8469	7,089	43.97%	2.6171	46.0888	1.1888	8,256	51.21%	0.9674	8.5483	3.1347
LDGT1	4,074	36.52%	4.3892	49.0037	2.6148	5,473	49.06%	3.0698	51.7500	1.7623	5,816	52.14%	1.0852	10.9232	4.1497
LDGT2	3,022	44.82%	4.4876	41.2318	3.0073	3,346	49.62%	3.5782	47.1606	2.6094	3,793	56.25%	1.4283	13.9156	4.2386
Grand Total	14,069	41.36%	3.9426	41.7992	2.3185	15,908	46.76%	2.9750	48.2619	1.6849	17,865	52.51%	1.1036	10.4610	3.6995

Appendix D

I/M240 Initial Visual Failure Report

(Mandatory)

Initial Visual Failure Report (Mandatory) (V1.00)

Vehicle		Visual Overall					CAT				AIS				O2				Gas Cap				Opacity			
Year	Type	Total	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
1982	LDGV	324	312	96.30%	12	3.70%	313	98.40%	5	1.60%	202	96.20%	8	3.80%	233	98.70%	3	1.30%	323	99.70%	1	0.30%	323	99.70%	1	0.30%
	LDGT1	294	268	91.20%	26	8.80%	277	96.50%	10	3.50%	223	93.70%	15	6.30%	59	93.70%	4	6.30%	294	100.00%	0	0.00%	291	99.00%	3	1.00%
	LDGT2	88	84	95.50%	4	4.50%	80	98.80%	1	1.20%	76	96.20%	3	3.80%	10	100.00%	0	0.00%	88	100.00%	0	0.00%	88	100.00%	0	0.00%
1982 Total		706	664	94.10%	42	5.90%	670	97.70%	16	2.30%	501	95.10%	26	4.90%	302	97.70%	7	2.30%	705	99.90%	1	0.10%	702	99.40%	4	0.60%
1983	LDGV	617	590	95.60%	27	4.40%	605	98.90%	7	1.10%	335	95.20%	17	4.80%	477	99.20%	4	0.80%	614	99.50%	3	0.50%	614	99.50%	3	0.50%
	LDGT1	491	461	93.90%	30	6.10%	484	98.80%	6	1.20%	409	95.10%	21	4.90%	148	96.10%	6	3.90%	489	99.60%	2	0.40%	486	99.00%	5	1.00%
	LDGT2	204	193	94.60%	11	5.40%	196	98.50%	3	1.50%	189	97.40%	5	2.60%	31	91.20%	3	8.80%	202	99.00%	2	1.00%	203	99.50%	1	0.50%
1983 Total		1312	1,244	94.80%	68	5.20%	1,285	98.80%	16	1.20%	933	95.60%	43	4.40%	656	98.10%	13	1.90%	1,305	99.50%	7	0.50%	1,303	99.30%	9	0.70%
1984	LDGV	830	795	95.80%	35	4.20%	818	98.70%	11	1.30%	484	95.70%	22	4.30%	722	98.90%	8	1.10%	828	99.80%	2	0.20%	824	99.30%	6	0.70%
	LDGT1	652	592	90.80%	60	9.20%	636	98.30%	11	1.70%	501	92.30%	42	7.70%	280	98.20%	5	1.80%	650	99.70%	2	0.30%	642	98.50%	10	1.50%
	LDGT2	259	237	91.50%	22	8.50%	251	98.80%	3	1.20%	224	93.70%	15	6.30%	53	93.00%	4	7.00%	256	98.80%	3	1.20%	257	99.20%	2	0.80%
1984 Total		1741	1,624	93.30%	117	6.70%	1,705	98.60%	25	1.40%	1,209	93.90%	79	6.10%	1055	98.40%	17	1.60%	1,734	99.60%	7	0.40%	1,723	99.00%	18	1.00%
1985	LDGV	1409	1,367	97.00%	42	3.00%	1,396	99.10%	12	0.90%	732	97.90%	16	2.10%	1279	99.60%	5	0.40%	1,402	99.60%	6	0.40%	1,402	99.50%	7	0.50%
	LDGT1	1083	1,031	95.20%	52	4.80%	1,063	98.90%	12	1.10%	645	95.80%	28	4.20%	618	99.00%	6	1.00%	1,079	99.60%	4	0.40%	1,078	99.50%	5	0.50%
	LDGT2	371	344	92.70%	27	7.30%	356	98.10%	7	1.90%	332	94.30%	20	5.70%	77	98.70%	1	1.30%	369	99.50%	2	0.50%	367	98.90%	4	1.10%
1985 Total		2863	2,742	95.80%	121	4.20%	2,815	98.90%	31	1.10%	1,709	96.40%	64	3.60%	1974	99.40%	12	0.60%	2,850	99.60%	12	0.40%	2,847	99.40%	16	0.60%
1986	LDGV	1508	1,469	97.40%	39	2.60%	1,496	99.30%	10	0.70%	660	97.10%	20	2.90%	1395	99.60%	6	0.40%	1,504	99.70%	4	0.30%	1,500	99.50%	8	0.50%
	LDGT1	1235	1,182	95.70%	53	4.30%	1,214	98.70%	16	1.30%	635	95.90%	27	4.10%	893	99.00%	9	1.00%	1,231	99.70%	4	0.30%	1,229	99.50%	6	0.50%
	LDGT2	353	323	91.50%	30	8.50%	343	98.80%	4	1.20%	305	93.00%	23	7.00%	113	96.60%	4	3.40%	353	100.00%	0	0.00%	350	99.20%	3	0.80%
1986 Total		3096	2,974	96.10%	122	3.90%	3,053	99.00%	30	1.00%	1,600	95.80%	70	4.20%	2401	99.20%	19	0.80%	3,088	99.70%	8	0.30%	3,079	99.50%	17	0.50%
1987	LDGV	2346	2,308	98.40%	38	1.60%	2,335	99.50%	11	0.50%	847	98.60%	12	1.40%	2220	99.60%	9	0.40%	2,340	99.70%	6	0.30%	2,340	99.70%	6	0.30%
	LDGT1	1851	1,793	96.90%	58	3.10%	1,836	99.40%	11	0.60%	849	96.30%	33	3.70%	1486	99.50%	8	0.50%	1,840	99.40%	11	0.60%	1,850	99.90%	1	0.10%
	LDGT2	555	538	96.90%	17	3.10%	546	99.30%	4	0.70%	508	97.90%	11	2.10%	424	99.50%	2	0.50%	551	99.30%	4	0.70%	555	100.00%	0	0.00%
1987 Total		4752	4,639	97.60%	113	2.40%	4,717	99.50%	26	0.50%	2,204	97.50%	56	2.50%	4130	99.50%	19	0.50%	4,731	99.60%	21	0.40%	4,745	99.90%	7	0.10%
1988	LDGV	2170	2,127	98.00%	43	2.00%	2,156	99.40%	13	0.60%	722	98.50%	11	1.50%	2096	99.90%	3	0.10%	2,168	99.90%	2	0.10%	2,152	99.20%	18	0.80%
	LDGT1	1894	1,844	97.40%	50	2.60%	1,879	99.40%	12	0.60%	922	97.40%	25	2.60%	1736	99.70%	5	0.30%	1,884	99.60%	8	0.40%	1,888	99.70%	6	0.30%
	LDGT2	628	607	96.70%	21	3.30%	623	99.80%	1	0.20%	578	98.30%	10	1.70%	566	99.80%	1	0.20%	623	99.20%	5	0.80%	624	99.40%	4	0.60%
1988 Total		4692	4,578	97.60%	114	2.40%	4,658	99.40%	26	0.60%	2,222	98.00%	46	2.00%	4398	99.80%	9	0.20%	4,675	99.70%	15	0.30%	4,664	99.40%	28	0.60%
1989	LDGV	3801	3,741	98.40%	60	1.60%	3,780	99.50%	19	0.50%	946	99.20%	8	0.80%	3688	99.80%	8	0.20%	3,789	99.70%	12	0.30%	3,784	99.60%	17	0.40%
	LDGT1	2894	2,821	97.50%	73	2.50%	2,877	99.50%	14	0.50%	1,183	97.10%	35	2.90%	2714	99.50%	14	0.50%	2,881	99.60%	13	0.40%	2,889	99.80%	5	0.20%
	LDGT2	1025	1,004	98.00%	21	2.00%	1,018	99.30%	7	0.70%	499	99.00%	5	1.00%	944	99.60%	4	0.40%	1,023	99.80%	2	0.20%	1,019	99.40%	6	0.60%
1989 Total		7720	7,566	98.00%	154	2.00%	7,675	99.50%	40	0.50%	2,628	98.20%	48	1.80%	7346	99.60%	26	0.40%	7,693	99.70%	27	0.30%	7,692	99.60%	28	0.40%
1990	LDGV	4661	4,600	98.70%	61	1.30%	4,647	99.70%	14	0.30%	641	98.50%	10	1.50%	4641	99.90%	5	0.10%	4,649	99.70%	12	0.30%	4,638	99.50%	23	0.50%
	LDGT1	2371	2,307	97.30%	64	2.70%	2,356	99.40%	15	0.60%	969	97.20%	28	2.80%	2317	99.80%	5	0.20%	2,360	99.50%	11	0.50%	2,360	99.50%	11	0.50%
	LDGT2	937	909	97.00%	28	3.00%	927	98.90%	10	1.10%	421	98.80%	5	1.20%	930	99.70%	3	0.30%	935	99.80%	2	0.20%	929	99.10%	8	0.90%
1990 Total		7969	7,816	98.10%	153	1.90%	7,930	99.50%	39	0.50%	2,031	97.90%	43	2.10%	7888	99.80%	13	0.20%	7,944	99.70%	25	0.30%	7,927	99.50%	42	0.50%
1991	LDGV	7253	7,161	98.70%	92	1.30%	7,229	99.70%	23	0.30%	699	97.40%	19	2.60%	7234	99.90%	9	0.10%	7,240	99.80%	13	0.20%	7,217	99.50%	36	0.50%
	LDGT1	4257	4,203	98.70%	54	1.30%	4,245	99.70%	11	0.30%	1,284	99.20%	10	0.80%	4226	99.90%	3	0.10%	4,239	99.60%	18	0.40%	4,244	99.70%	13	0.30%
	LDGT2	1161	1,140	98.20%	21	1.80%	1,148	98.90%	13	1.10%	518	99.00%	5	1.00%	1153	99.70%	4	0.30%	1,160	99.90%	1	0.10%	1,161	100.00%	0	0.00%
1991 Total		12671	12,504	98.70%	167	1.30%	12,622	99.60%	47	0.40%	2,501	98.70%	34	1.30%	12613	99.90%	16	0.10%	12,639	99.70%	32	0.30%	12,622	99.60%	49	0.40%
	LDGV	7036	6,957	98.90%	79	1.10%	7,023	99.80%	12	0.20%	592	98.30%	10	1.70%	7010	99.80%	12	0.20%	7,021	99.80%	15	0.20%	7,003	99.50%	33	0.50%

Vehicle		Visual Overall					CAT				AIS				O2				Gas Cap				Opacity			
Year	Type	Total	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
1992	LDGT1	3474	3,441	99.10%	33	0.90%	3,464	99.80%	7	0.20%	956	99.70%	3	0.30%	3464	99.80%	6	0.20%	3,460	99.60%	14	0.40%	3,469	99.90%	5	0.10%
	LDGT2	1474	1,457	98.80%	17	1.20%	1,462	99.20%	12	0.80%	609	99.30%	4	0.70%	1472	100.00%	0	0.00%	1,473	99.90%	1	0.10%	1,474	100.00%	0	0.00%
1992 Total		11984	11,855	98.90%	129	1.10%	11,949	99.70%	31	0.30%	2,157	99.20%	17	0.80%	11946	99.80%	18	0.20%	11,954	99.70%	30	0.30%	11,946	99.70%	38	0.30%
1993	LDGV	10073	9,959	98.90%	114	1.10%	10,050	99.80%	22	0.20%	636	98.10%	12	1.90%	10042	99.80%	17	0.20%	10,046	99.70%	27	0.30%	10,029	99.60%	44	0.40%
	LDGT1	6551	6,481	98.90%	70	1.10%	6,533	99.70%	17	0.30%	1,532	99.60%	6	0.40%	6537	99.90%	7	0.10%	6,531	99.70%	20	0.30%	6,531	99.70%	20	0.30%
	LDGT2	2228	2,200	98.70%	28	1.30%	2,215	99.40%	13	0.60%	800	99.30%	6	0.70%	2222	99.90%	2	0.10%	2,221	99.70%	6	0.30%	2,224	99.80%	4	0.20%
1993 Total		18852	18,640	98.90%	212	1.10%	18,798	99.70%	52	0.30%	2,968	99.20%	24	0.80%	18801	99.90%	26	0.10%	18,798	99.70%	53	0.30%	18,784	99.60%	68	0.40%
1994	LDGV	10651	10,542	99.00%	109	1.00%	10,631	99.80%	18	0.20%	813	99.00%	8	1.00%	10631	99.80%	17	0.20%	10,624	99.70%	27	0.30%	10,607	99.60%	44	0.40%
	LDGT1	7131	7,044	98.80%	87	1.20%	7,102	99.60%	27	0.40%	1,403	99.60%	6	0.40%	7118	99.90%	6	0.10%	7,104	99.60%	27	0.40%	7,109	99.70%	22	0.30%
	LDGT2	3187	3,141	98.60%	46	1.40%	3,169	99.50%	15	0.50%	1,099	99.80%	2	0.20%	3176	99.70%	10	0.30%	3,168	99.50%	17	0.50%	3,180	99.80%	7	0.20%
1994 Total		20969	20,727	98.80%	242	1.20%	20,902	99.70%	60	0.30%	3,315	99.50%	16	0.50%	20925	99.80%	33	0.20%	20,896	99.70%	71	0.30%	20,896	99.70%	73	0.30%
1995	LDGV	16420	16,257	99.00%	163	1.00%	16,388	99.80%	29	0.20%	1,069	97.90%	23	2.10%	16388	99.80%	26	0.20%	16,374	99.70%	46	0.30%	16,374	99.70%	46	0.30%
	LDGT1	9414	9,342	99.20%	72	0.80%	9,385	99.70%	28	0.30%	1,280	99.30%	9	0.70%	9402	99.90%	8	0.10%	9,396	99.80%	15	0.20%	9,401	99.90%	13	0.10%
	LDGT2	4958	4,908	99.00%	50	1.00%	4,936	99.60%	18	0.40%	1,577	99.40%	10	0.60%	4951	99.90%	5	0.10%	4,944	99.70%	14	0.30%	4,952	99.90%	6	0.10%
1995 Total		30792	30,507	99.10%	285	0.90%	30,709	99.80%	75	0.20%	3,926	98.90%	42	1.10%	30741	99.90%	39	0.10%	30,714	99.80%	75	0.20%	30,727	99.80%	65	0.20%
1996	LDGV	14840	14,686	99.00%	154	1.00%	9,125	99.60%	34	0.40%	635	98.30%	11	1.70%	9115	99.50%	44	0.50%	14,795	99.70%	42	0.30%	14,811	99.80%	29	0.20%
	LDGT1	9040	8,952	99.00%	88	1.00%	5,328	99.60%	22	0.40%	2	66.70%	1	33.30%	5326	99.60%	24	0.40%	8,999	99.60%	40	0.40%	9,033	99.90%	7	0.10%
	LDGT2	3700	3,673	99.30%	27	0.70%	2,135	99.60%	9	0.40%	421	99.10%	4	0.90%	2137	99.70%	7	0.30%	3,691	99.80%	7	0.20%	3,698	99.90%	2	0.10%
1996 Total		27580	27,311	99.00%	269	1.00%	16,588	99.60%	65	0.40%	1,058	98.50%	16	1.50%	16578	99.50%	75	0.50%	27,485	99.70%	89	0.30%	27,542	99.90%	38	0.10%
1997	LDGV	21933	21,721	99.00%	212	1.00%	11,036	99.70%	36	0.30%	682	97.20%	20	2.80%	10995	99.30%	77	0.70%	21,875	99.70%	57	0.30%	21,901	99.90%	32	0.10%
	LDGT1	15540	15,448	99.40%	92	0.60%	8,323	99.70%	24	0.30%	35	100.00%	0	0.00%	8333	99.80%	14	0.20%	15,501	99.80%	37	0.20%	15,521	99.90%	19	0.10%
	LDGT2	5857	5,802	99.10%	55	0.90%	3,130	99.40%	20	0.60%	6	85.70%	1	14.30%	3136	99.60%	14	0.40%	5,836	99.70%	18	0.30%	5,851	99.90%	6	0.10%
1997 Total		43330	42,971	99.20%	359	0.80%	22,489	99.60%	80	0.40%	723	97.20%	21	2.80%	22464	99.50%	105	0.50%	43,212	99.70%	112	0.30%	43,273	99.90%	57	0.10%
1998	LDGV	20807	20,624	99.10%	183	0.90%	9,791	99.60%	38	0.40%	1,134	96.80%	38	3.20%	9789	99.60%	40	0.40%	20,752	99.80%	47	0.20%	20,775	99.80%	32	0.20%
	LDGT1	15502	15,409	99.40%	93	0.60%	7,687	99.50%	36	0.50%	4	100.00%	0	0.00%	7704	99.80%	19	0.20%	15,463	99.80%	38	0.20%	15,497	100.00%	5	0.00%
	LDGT2	5522	5,489	99.40%	33	0.60%	3,076	99.60%	13	0.40%	48	98.00%	1	2.00%	3083	99.80%	6	0.20%	5,511	99.90%	8	0.10%	5,516	99.90%	6	0.10%
1998 Total		41831	41,522	99.30%	309	0.70%	20,554	99.60%	87	0.40%	1,186	96.80%	39	3.20%	20576	99.70%	65	0.30%	41,726	99.80%	93	0.20%	41,788	99.90%	43	0.10%
1999	LDGV	28562	28,360	99.30%	202	0.70%	11,780	99.70%	34	0.30%	1,027	97.00%	32	3.00%	11762	99.60%	52	0.40%	28,516	99.90%	40	0.10%	28,510	99.80%	52	0.20%
	LDGT1	20324	20,222	99.50%	102	0.50%	8,053	99.70%	26	0.30%	80	94.10%	5	5.90%	8059	99.80%	20	0.20%	20,284	99.80%	40	0.20%	20,310	99.90%	14	0.10%
	LDGT2	9925	9,878	99.50%	47	0.50%	5,365	99.60%	19	0.40%	144	98.00%	3	2.00%	5379	99.90%	5	0.10%	9,898	99.80%	19	0.20%	9,921	100.00%	4	0.00%
1999 Total		58811	58,460	99.40%	351	0.60%	25,198	99.70%	79	0.30%	1,251	96.90%	40	3.10%	25200	99.70%	77	0.30%	58,698	99.80%	99	0.20%	58,741	99.90%	70	0.10%
2000	LDGV	27699	27,480	99.20%	219	0.80%	12,591	99.70%	43	0.30%	1,736	96.70%	59	3.30%	12602	99.70%	32	0.30%	27,642	99.80%	53	0.20%	27,661	99.90%	38	0.10%
	LDGT1	18992	18,897	99.50%	95	0.50%	7,672	99.80%	18	0.20%	199	96.60%	7	3.40%	7674	99.80%	16	0.20%	18,944	99.80%	46	0.20%	18,980	99.90%	12	0.10%
	LDGT2	7247	7,194	99.30%	53	0.70%	3,646	99.60%	15	0.40%	203	98.50%	3	1.50%	3658	99.90%	3	0.10%	7,212	99.70%	22	0.30%	7,237	99.90%	10	0.10%
2000 Total		53938	53,571	99.30%	367	0.70%	23,909	99.70%	76	0.30%	2,138	96.90%	69	3.10%	23934	99.80%	51	0.20%	53,798	99.80%	121	0.20%	53,878	99.90%	60	0.10%
2001	LDGV	33476	33,234	99.30%	242	0.70%	13,617	99.60%	53	0.40%	2,944	97.20%	86	2.80%	13625	99.70%	45	0.30%	33,435	99.90%	35	0.10%	33,442	99.90%	34	0.10%
	LDGT1	22832	22,745	99.60%	87	0.40%	8,893	99.70%	23	0.30%	765	99.20%	6	0.80%	8898	99.80%	18	0.20%	22,797	99.90%	32	0.10%	22,822	100.00%	10	0.00%
	LDGT2	9624	9,592	99.70%	32	0.30%	4,301	99.80%	10	0.20%	303	99.00%	3	1.00%	4307	99.90%	4	0.10%	9,609	99.90%	13	0.10%	9,621	100.00%	3	0.00%
2001 Total		65932	65,571	99.50%	361	0.50%	26,811	99.70%	86	0.30%	4,012	97.70%	95	2.30%	26830	99.80%	67	0.20%	65,841	99.90%	80	0.10%	65,885	99.90%	47	0.10%
2002	LDGV	28191	27,974	99.20%	217	0.80%	10,701	99.40%	70	0.60%	2,020	97.10%	60	2.90%	10701	99.40%	70	0.60%	28,156	99.90%	33	0.10%	28,165	99.90%	26	0.10%
	LDGT1	19774	19,709	99.70%	65	0.30%	7,401	99.80%	16	0.20%	87	100.00%	0	0.00%	7404	99.80%	13									

Vehicle		Visual Overall					CAT				AIS				O2				Gas Cap				Opacity			
Year	Type	Total	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
2002 Total		54367	54,055	99.40%	312	0.60%	20,819	99.50%	97	0.50%	2,232	97.20%	65	2.80%	20827	99.60%	89	0.40%	54,293	99.90%	71	0.10%	54,328	99.90%	39	0.10%
2003	LDGV	33611	33,471	99.60%	140	0.40%	9,569	99.40%	56	0.60%	1,797	98.20%	33	1.80%	9602	99.80%	23	0.20%	33,581	99.90%	27	0.10%	33,598	100.00%	13	0.00%
	LDGT1	24513	24,478	99.90%	35	0.10%	6,481	99.80%	10	0.20%	57	98.30%	1	1.70%	6486	99.90%	5	0.10%	24,494	99.90%	18	0.10%	24,512	100.00%	1	0.00%
	LDGT2	9446	9,415	99.70%	31	0.30%	3,825	99.60%	15	0.40%	197	99.50%	1	0.50%	3837	99.90%	3	0.10%	9,437	99.90%	8	0.10%	9,441	99.90%	5	0.10%
2003 Total		67570	67,364	99.70%	206	0.30%	19,875	99.60%	81	0.40%	2,051	98.30%	35	1.70%	19925	99.80%	31	0.20%	67,512	99.90%	53	0.10%	67,551	100.00%	19	0.00%
2004	LDGV	22604	22,503	99.60%	101	0.40%	6,386	99.50%	34	0.50%	920	98.40%	15	1.60%	6392	99.60%	28	0.40%	22,580	99.90%	22	0.10%	22,594	100.00%	10	0.00%
	LDGT1	18192	18,146	99.70%	46	0.30%	4,464	99.60%	19	0.40%	357	99.40%	2	0.60%	4480	99.90%	3	0.10%	18,173	99.90%	19	0.10%	18,188	100.00%	4	0.00%
	LDGT2	8127	8,100	99.70%	27	0.30%	2,936	99.70%	8	0.30%	151	97.40%	4	2.60%	2943	100.00%	1	0.00%	8,115	99.90%	11	0.10%	8,124	100.00%	3	0.00%
2004 Total		48923	48,749	99.60%	174	0.40%	13,786	99.60%	61	0.40%	1,428	98.60%	21	1.40%	13815	99.80%	32	0.20%	48,868	99.90%	52	0.10%	48,906	100.00%	17	0.00%
2005	LDGV	33266	33,169	99.70%	97	0.30%	6,706	99.30%	45	0.70%	741	98.80%	9	1.20%	6724	99.60%	27	0.40%	33,246	99.90%	20	0.10%	33,261	100.00%	5	0.00%
	LDGT1	28242	28,203	99.90%	39	0.10%	5,738	99.70%	17	0.30%	445	99.80%	1	0.20%	5746	99.80%	9	0.20%	28,228	100.00%	12	0.00%	28,242	100.00%	0	0.00%
	LDGT2	9539	9,523	99.80%	16	0.20%	2,397	99.80%	4	0.20%	135	99.30%	1	0.70%	2399	99.90%	2	0.10%	9,530	99.90%	9	0.10%	9,539	100.00%	0	0.00%
2005 Total		71047	70,895	99.80%	152	0.20%	14,841	99.60%	66	0.40%	1,321	99.20%	11	0.80%	14869	99.70%	38	0.30%	71,004	99.90%	41	0.10%	71,042	100.00%	5	0.00%
2006	LDGV	23579	23,524	99.80%	55	0.20%	4,989	99.50%	27	0.50%	471	98.90%	5	1.10%	4994	99.60%	22	0.40%	23,571	100.00%	7	0.00%	23,574	100.00%	5	0.00%
	LDGT1	17016	16,997	99.90%	19	0.10%	3,492	99.90%	2	0.10%	316	99.70%	1	0.30%	3492	99.90%	2	0.10%	17,004	99.90%	11	0.10%	17,013	100.00%	3	0.00%
	LDGT2	7879	7,863	99.80%	16	0.20%	1,746	99.80%	4	0.20%	138	98.60%	2	1.40%	1747	99.80%	3	0.20%	7,868	99.90%	10	0.10%	7,879	100.00%	0	0.00%
2006 Total		48474	48,384	99.80%	90	0.20%	10,227	99.70%	33	0.30%	925	99.10%	8	0.90%	10233	99.70%	27	0.30%	48,443	99.90%	28	0.10%	48,466	100.00%	8	0.00%
2007	LDGV	32697	32,656	99.90%	41	0.10%	4,712	99.50%	22	0.50%	379	99.20%	3	0.80%	4725	99.80%	9	0.20%	32,686	100.00%	10	0.00%	32,697	100.00%	0	0.00%
	LDGT1	26720	26,700	99.90%	20	0.10%	3,234	99.90%	2	0.10%	330	99.40%	2	0.60%	3233	99.90%	3	0.10%	26,710	100.00%	10	0.00%	26,717	100.00%	3	0.00%
	LDGT2	10868	10,863	100.00%	5	0.00%	1,818	99.90%	2	0.10%	68	100.00%	0	0.00%	1817	99.80%	3	0.20%	10,866	100.00%	1	0.00%	10,867	100.00%	1	0.00%
2007 Total		70285	70,219	99.90%	66	0.10%	9,764	99.70%	26	0.30%	777	99.40%	5	0.60%	9775	99.80%	15	0.20%	70,262	100.00%	21	0.00%	70,281	100.00%	4	0.00%
2008	LDGV	16815	16,784	99.80%	31	0.20%	2,402	99.20%	19	0.80%	217	98.20%	4	1.80%	2411	99.60%	10	0.40%	16,811	100.00%	3	0.00%	16,815	100.00%	0	0.00%
	LDGT1	12856	12,848	99.90%	8	0.10%	1,493	100.00%	0	0.00%	85	100.00%	0	0.00%	1490	99.80%	3	0.20%	12,852	100.00%	4	0.00%	12,855	100.00%	1	0.00%
	LDGT2	6726	6,721	99.90%	5	0.10%	996	99.80%	2	0.20%	55	100.00%	0	0.00%	998	100.00%	0	0.00%	6,724	100.00%	2	0.00%	6,725	100.00%	1	0.00%
2008 Total		36397	36,353	99.90%	44	0.10%	4,891	99.60%	21	0.40%	357	98.90%	4	1.10%	4899	99.70%	13	0.30%	36,387	100.00%	9	0.00%	36,395	100.00%	2	0.00%
2009	LDGV	27871	27,838	99.90%	33	0.10%	2,630	99.50%	14	0.50%	196	99.50%	1	0.50%	2636	99.70%	8	0.30%	27,859	100.00%	8	0.00%	27,867	100.00%	4	0.00%
	LDGT1	16965	16,961	100.00%	4	0.00%	1,117	99.90%	1	0.10%	44	100.00%	0	0.00%	1118	100.00%	0	0.00%	16,963	100.00%	2	0.00%	16,964	100.00%	1	0.00%
	LDGT2	7291	7,289	100.00%	2	0.00%	838	100.00%	0	0.00%	16	100.00%	0	0.00%	838	100.00%	0	0.00%	7,288	100.00%	2	0.00%	7,291	100.00%	0	0.00%
2009 Total		52127	52,088	99.90%	39	0.10%	4,585	99.70%	15	0.30%	256	99.60%	1	0.40%	4592	99.80%	8	0.20%	52,110	100.00%	12	0.00%	52,122	100.00%	5	0.00%
2010	LDGV	6230	6,222	99.90%	8	0.10%	805	99.40%	5	0.60%	73	98.60%	1	1.40%	808	99.80%	2	0.20%	6,230	100.00%	0	0.00%	6,229	100.00%	1	0.00%
	LDGT1	4456	4,453	99.90%	3	0.10%	486	100.00%	0	0.00%	12	100.00%	0	0.00%	485	99.80%	1	0.20%	4,454	100.00%	2	0.00%	4,456	100.00%	0	0.00%
	LDGT2	2178	2,176	99.90%	2	0.10%	283	100.00%	0	0.00%	7	100.00%	0	0.00%	283	100.00%	0	0.00%	2,175	100.00%	1	0.00%	2,177	100.00%	1	0.00%
2010 Total		12864	12,851	99.90%	13	0.10%	1,574	99.70%	5	0.30%	92	98.90%	1	1.10%	1576	99.80%	3	0.20%	12,859	100.00%	3	0.00%	12,862	100.00%	2	0.00%
2011	LDGV	3261	3,257	99.90%	4	0.10%	467	99.60%	2	0.40%	50	98.00%	1	2.00%	468	99.80%	1	0.20%	3,260	100.00%	1	0.00%	3,261	100.00%	0	0.00%
	LDGT1	1497	1,497	100.00%	0	0.00%	144	100.00%	0	0.00%	3	100.00%	0	0.00%	144	100.00%	0	0.00%	1,497	100.00%	0	0.00%	1,497	100.00%	0	0.00%
	LDGT2	847	844	99.60%	3	0.40%	93	97.90%	2	2.10%	3	100.00%	0	0.00%	94	98.90%	1	1.10%	847	100.00%	0	0.00%	846	99.90%	1	0.10%
2011 Total		5605	5,598	99.90%	7	0.10%	704	99.40%	4	0.60%	56	98.20%	1	1.80%	706	99.70%	2	0.30%	5,604	100.00%	1	0.00%	5,604	100.00%	1	0.00%
2012	LDGV	2444	2,439	99.80%	5	0.20%	303	99.70%	1	0.30%	24	96.00%	1	4.00%	302	99.30%	2	0.70%	2,443	100.00%	1	0.00%	2,444	100.00%	0	0.00%
	LDGT1	841	841	100.00%	0	0.00%	89	100.00%	0	0.00%	1	100.00%	0	0.00%	89	100.00%	0	0.00%	841	100.00%	0	0.00%	841	100.00%	0	0.00%
	LDGT2	505	504	99.80%	1	0.20%	49	100.00%	0	0.00%	0	0.00%	0	0.00%	49	100.00%	0	0.00%	503	99.80%	1	0.20%	505	100.00%	0	0.00%
2012 Total		3790	3,784	99.80%	6	0.20%	441	99.80%	1	0.20%	25	96.20%	1	3.80%	440	99.50%	2	0.50%	3,787	99.90%	2	0.10%	3,790	100.00%	0	

Vehicle		Visual Overall					CAT				AIS				O2				Gas Cap				Opacity			
Year	Type	Total	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
2013	LDGT1	371	371	100.00%	0	0.00%	29	100.00%	0	0.00%	0	0.00%	0	0.00%	29	100.00%	0	0.00%	371	100.00%	0	0.00%	371	100.00%	0	0.00%
	LDGT2	236	235	99.60%	1	0.40%	26	96.30%	1	3.70%	0	0.00%	0	0.00%	27	100.00%	0	0.00%	236	100.00%	0	0.00%	236	100.00%	0	0.00%
2013 Total		1264	1,262	99.80%	2	0.20%	127	98.40%	2	1.60%	1	100.00%	0	0.00%	129	100.00%	0	0.00%	1,264	100.00%	0	0.00%	1,264	100.00%	0	0.00%
2014	LDGV	21	21	100.00%	0	0.00%	3	100.00%	0	0.00%	0	0.00%	0	0.00%	3	100.00%	0	0.00%	21	100.00%	0	0.00%	21	100.00%	0	0.00%
	LDGT1	18	18	100.00%	0	0.00%	2	100.00%	0	0.00%	0	0.00%	0	0.00%	2	100.00%	0	0.00%	18	100.00%	0	0.00%	18	100.00%	0	0.00%
	LDGT2	13	13	100.00%	0	0.00%	5	100.00%	0	0.00%	0	0.00%	0	0.00%	5	100.00%	0	0.00%	13	100.00%	0	0.00%	13	100.00%	0	0.00%
2014 Total		52	52	100.00%	0	0.00%	10	100.00%	0	0.00%	0	0.00%	0	0.00%	10	100.00%	0	0.00%	52	100.00%	0	0.00%	52	100.00%	0	0.00%
Grand Total		894306	889,140	99.40%	5,166	0.60%	366,681	99.60%	1,399	0.40%	49,793	98.00%	1,041	2.00%	362,554	99.70%	967	0.30%	892,931	99.90%	1,271	0.10%	893,427	99.90%	879	0.10%

Summary by Vehicle Type (V1.01)

Vehicle	Visual Overall					CAT				AIS				O2				Gas Cap				Opacity			
	Total	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
LDGV	447663	444804	99.40%	2859	0.60%	186552	99.60%	740	0.40%	24425	97.70%	575	2.30%	185783	99.70%	624	0.30%	447038	99.90%	582	0.10%	447090	99.90%	573	0.10%
LDGT1	317283	315705	99.50%	1578	0.50%	123477	99.70%	413	0.30%	15613	98.00%	314	2.00%	121190	99.80%	242	0.20%	316773	99.80%	491	0.20%	317069	99.90%	214	0.10%
LDGT2	129360	128631	99.40%	729	0.60%	56652	99.60%	246	0.40%	9755	98.50%	152	1.50%	55581	99.80%	101	0.20%	129120	99.80%	198	0.20%	129268	99.90%	92	0.10%
Grand	894306	889140	99.40%	5166	0.60%	366681	99.60%	1399	0.40%	49793	98.00%	1,041	2.00%	362554	99.70%	967	0.30%	892931	99.90%	1271	0.10%	893427	99.90%	879	0.10%

Appendix E

I/M240 Initial Visual Failure Report

(Advisory)

Initial Visual Failure Report (Advisory) (V1.01)

Vehicle		Cap Pressure				Eng Light				OBD				Evap System			
Year	Type	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
1982	LDGV	239	90.53%	25	9.47%	165	85.05%	29	14.95%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	209	81.64%	47	18.36%	43	76.79%	13	23.21%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	68	80.95%	16	19.05%	12	85.71%	2	14.29%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1982 Total		516	85.43%	88	14.57%	220	83.33%	44	16.67%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1983	LDGV	499	91.56%	46	8.44%	337	87.76%	47	12.24%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	385	86.91%	58	13.09%	60	71.43%	24	28.57%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	152	79.58%	39	20.42%	19	73.08%	7	26.92%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1983 Total		1036	87.87%	143	12.13%	416	84.21%	78	15.79%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1984	LDGV	691	90.80%	70	9.20%	481	82.93%	99	17.07%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	522	87.58%	74	12.42%	146	73.74%	52	26.26%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	206	83.40%	41	16.60%	35	79.55%	9	20.45%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1984 Total		1419	88.47%	185	11.53%	662	80.54%	160	19.46%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1985	LDGV	1279	95.16%	65	4.84%	867	85.76%	144	14.24%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	904	89.86%	102	10.14%	419	81.20%	97	18.80%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	306	85.47%	52	14.53%	69	82.14%	15	17.86%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1985 Total		2489	91.91%	219	8.09%	1,355	84.11%	256	15.89%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1986	LDGV	1354	94.82%	74	5.18%	913	81.81%	203	18.19%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	1065	90.87%	107	9.13%	650	84.97%	115	15.03%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	273	80.77%	65	19.23%	98	79.67%	25	20.33%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1986 Total		2692	91.63%	246	8.37%	1,661	82.88%	343	17.12%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1987	LDGV	2157	95.91%	92	4.09%	1,485	82.23%	321	17.77%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	1630	92.19%	138	7.81%	975	83.05%	199	16.95%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	486	88.85%	61	11.15%	392	89.50%	46	10.50%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1987 Total		4273	93.62%	291	6.38%	2,852	83.44%	566	16.56%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1988	LDGV	1988	95.99%	83	4.01%	1,615	85.00%	285	15.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	1715	92.65%	136	7.35%	1,419	86.74%	217	13.26%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	560	91.80%	50	8.20%	555	92.81%	43	7.19%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1988 Total		4263	94.06%	269	5.94%	3,589	86.82%	545	13.18%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1989	LDGV	3523	95.40%	170	4.60%	3,191	89.33%	381	10.67%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	2605	91.95%	228	8.05%	2,240	88.22%	299	11.78%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	928	92.25%	78	7.75%	919	91.99%	80	8.01%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1989 Total		7056	93.68%	476	6.32%	6,350	89.31%	760	10.69%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1990	LDGV	4297	94.92%	230	5.08%	4,117	89.89%	463	10.11%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	2118	91.97%	185	8.03%	1,810	83.91%	347	16.09%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	845	91.75%	76	8.25%	877	94.20%	54	5.80%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1990 Total		7260	93.67%	491	6.33%	6,804	88.73%	864	11.27%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1991	LDGV	6757	95.32%	332	4.68%	6,640	91.88%	587	8.12%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	3912	93.48%	273	6.52%	3,742	91.22%	360	8.78%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	1027	90.48%	108	9.52%	1,062	92.51%	86	7.49%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1991 Total		11696	94.25%	713	5.75%	11,444	91.72%	1,033	8.28%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1992	LDGV	6604	95.60%	304	4.40%	6,311	90.42%	669	9.58%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	3157	92.20%	267	7.80%	3,107	91.09%	304	8.91%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	1330	91.98%	116	8.02%	1,365	92.67%	108	7.33%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1992 Total		11091	94.17%	687	5.83%	10,783	90.89%	1,081	9.11%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1993	LDGV	9527	96.16%	380	3.84%	9,241	92.13%	789	7.87%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	6081	94.62%	346	5.38%	6,134	94.08%	386	5.92%	0	0.00%	0	0.00%	0	0.00%	0	0.00%

Vehicle		Cap Pressure				Eng Light				OBD				Evap System			
Year	Type	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
	LDGT2	2034	92.24%	171	7.76%	2,075	93.22%	151	6.78%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1993 Total		17642	95.16%	897	4.84%	17,450	92.94%	1,326	7.06%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1994	LDGV	10081	96.48%	368	3.52%	9,608	90.25%	1,038	9.75%	247	73.08%	91	26.92%	0	0.00%	0	0.00%
	LDGT1	6626	94.16%	411	5.84%	6,411	90.02%	711	9.98%	3	42.86%	4	57.14%	0	0.00%	0	0.00%
	LDGT2	2909	92.73%	228	7.27%	2,986	93.84%	196	6.16%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1994 Total		19616	95.12%	1,007	4.88%	19,005	90.72%	1,945	9.28%	250	72.46%	95	27.54%	0	0.00%	0	0.00%
1995	LDGV	15545	96.35%	589	3.65%	14,385	87.69%	2,019	12.31%	1,895	77.28%	557	22.72%	0	0.00%	0	0.00%
	LDGT1	8824	95.08%	457	4.92%	8,303	88.25%	1,105	11.75%	1,129	70.04%	483	29.96%	0	0.00%	0	0.00%
	LDGT2	4545	92.76%	355	7.24%	4,684	94.53%	271	5.47%	49	76.56%	15	23.44%	0	0.00%	0	0.00%
1995 Total		28914	95.38%	1,401	4.62%	27,372	88.97%	3,395	11.03%	3,073	74.44%	1,055	25.56%	0	0.00%	0	0.00%
1996	LDGV	13940	95.73%	622	4.27%	11,195	75.44%	3,645	24.56%	9,139	75.59%	2,951	24.41%	0	0.00%	0	0.00%
	LDGT1	8280	92.85%	638	7.15%	6,686	73.96%	2,354	26.04%	5,938	72.64%	2,237	27.36%	0	0.00%	0	0.00%
	LDGT2	3359	92.18%	285	7.82%	2,665	72.03%	1,035	27.97%	2,309	71.86%	904	28.14%	0	0.00%	0	0.00%
1996 Total		25579	94.30%	1,545	5.70%	20,546	74.50%	7,034	25.50%	17,386	74.05%	6,092	25.95%	0	0.00%	0	0.00%
1997	LDGV	20568	95.73%	918	4.27%	17,178	78.32%	4,755	21.68%	15,082	77.97%	4,262	22.03%	0	0.00%	0	0.00%
	LDGT1	14216	93.11%	1,052	6.89%	12,010	77.28%	3,530	22.72%	10,834	76.52%	3,325	23.48%	0	0.00%	0	0.00%
	LDGT2	5395	93.73%	361	6.27%	4,269	72.89%	1,588	27.11%	3,847	72.26%	1,477	27.74%	0	0.00%	0	0.00%
1997 Total		40179	94.52%	2,331	5.48%	33,457	77.21%	9,873	22.79%	29,763	76.66%	9,064	23.34%	0	0.00%	0	0.00%
1998	LDGV	19455	95.57%	901	4.43%	16,378	78.71%	4,429	21.29%	14,477	78.62%	3,938	21.38%	0	0.00%	0	0.00%
	LDGT1	14336	93.91%	929	6.09%	12,243	78.98%	3,259	21.02%	11,147	78.87%	2,986	21.13%	0	0.00%	0	0.00%
	LDGT2	5149	94.55%	297	5.45%	4,255	77.06%	1,267	22.94%	3,773	76.86%	1,136	23.14%	0	0.00%	0	0.00%
1998 Total		38940	94.82%	2,127	5.18%	32,876	78.59%	8,955	21.41%	29,397	78.48%	8,060	21.52%	0	0.00%	0	0.00%
1999	LDGV	26714	95.60%	1,230	4.40%	23,480	82.21%	5,082	17.79%	21,022	82.73%	4,387	17.27%	0	0.00%	0	0.00%
	LDGT1	18931	94.59%	1,083	5.41%	17,236	84.81%	3,088	15.19%	15,848	85.27%	2,737	14.73%	0	0.00%	0	0.00%
	LDGT2	9268	94.92%	496	5.08%	7,928	79.88%	1,997	20.12%	6,978	80.51%	1,689	19.49%	0	0.00%	0	0.00%
1999 Total		54913	95.13%	2,809	4.87%	48,644	82.71%	10,167	17.29%	43,848	83.26%	8,813	16.74%	0	0.00%	0	0.00%
2000	LDGV	25936	95.80%	1,138	4.20%	21,938	79.20%	5,761	20.80%	19,598	80.41%	4,776	19.59%	0	0.00%	0	0.00%
	LDGT1	17670	94.43%	1,043	5.57%	15,894	83.69%	3,098	16.31%	14,587	84.80%	2,614	15.20%	0	0.00%	0	0.00%
	LDGT2	6655	93.73%	445	6.27%	5,929	81.81%	1,318	18.19%	5,239	82.92%	1,079	17.08%	0	0.00%	0	0.00%
2000 Total		50261	95.03%	2,626	4.97%	43,761	81.13%	10,177	18.87%	39,424	82.32%	8,469	17.68%	0	0.00%	0	0.00%
2001	LDGV	31651	96.56%	1,128	3.44%	27,049	80.80%	6,427	19.20%	24,553	81.65%	5,517	18.35%	0	0.00%	0	0.00%
	LDGT1	21394	94.99%	1,128	5.01%	18,792	82.31%	4,040	17.69%	17,247	81.71%	3,860	18.29%	0	0.00%	0	0.00%
	LDGT2	8894	94.01%	567	5.99%	8,060	83.75%	1,564	16.25%	7,190	84.45%	1,324	15.55%	0	0.00%	0	0.00%
2001 Total		61939	95.64%	2,823	4.36%	53,901	81.75%	12,031	18.25%	48,990	82.07%	10,701	17.93%	0	0.00%	0	0.00%
2002	LDGV	26335	95.63%	1,203	4.37%	23,238	82.43%	4,953	17.57%	21,563	83.35%	4,308	16.65%	0	0.00%	0	0.00%
	LDGT1	18520	95.71%	831	4.29%	16,641	84.16%	3,133	15.84%	15,342	83.98%	2,927	16.02%	0	0.00%	0	0.00%
	LDGT2	5912	93.96%	380	6.04%	5,336	83.35%	1,066	16.65%	4,738	84.11%	895	15.89%	0	0.00%	0	0.00%
2002 Total		50767	95.46%	2,414	4.54%	45,215	83.17%	9,152	16.83%	41,643	83.67%	8,130	16.33%	0	0.00%	0	0.00%
2003	LDGV	31732	96.46%	1,165	3.54%	29,561	87.95%	4,050	12.05%	27,641	88.14%	3,721	11.86%	0	0.00%	0	0.00%
	LDGT1	23094	95.70%	1,038	4.30%	22,011	89.79%	2,502	10.21%	20,720	89.72%	2,374	10.28%	0	0.00%	0	0.00%
	LDGT2	8902	95.44%	425	4.56%	8,197	86.78%	1,249	13.22%	7,269	87.96%	995	12.04%	0	0.00%	0	0.00%
2003 Total		63728	96.04%	2,628	3.96%	59,769	88.45%	7,801	11.55%	55,630	88.70%	7,090	11.30%	0	0.00%	0	0.00%
2004	LDGV	21098	95.89%	905	4.11%	20,169	89.23%	2,435	10.77%	18,810	89.65%	2,171	10.35%	0	0.00%	0	0.00%
	LDGT1	17150	95.92%	729	4.08%	16,550	90.97%	1,642	9.03%	15,618	91.37%	1,475	8.63%	0	0.00%	0	0.00%
	LDGT2	7565	94.94%	403	5.06%	7,333	90.23%	794	9.77%	6,466	90.79%	656	9.21%	0	0.00%	0	0.00%
2004 Total		45813	95.74%	2,037	4.26%	44,052	90.04%	4,871	9.96%	40,894	90.48%	4,302	9.52%	0	0.00%	0	0.00%
2005	LDGV	31313	96.35%	1,187	3.65%	30,942	93.01%	2,324	6.99%	29,340	93.20%	2,140	6.80%	0	0.00%	0	0.00%

Vehicle		Cap Pressure				Eng Light				OBD				Evap System			
Year	Type	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
	LDGT1	27013	97.02%	831	2.98%	26,454	93.67%	1,788	6.33%	25,235	93.92%	1,633	6.08%	0	0.00%	0	0.00%
	LDGT2	9090	96.77%	303	3.23%	8,947	93.79%	592	6.21%	8,052	94.23%	493	5.77%	0	0.00%	0	0.00%
2005 Total		67416	96.67%	2,321	3.33%	66,343	93.38%	4,704	6.62%	62,627	93.62%	4,266	6.38%	0	0.00%	0	0.00%
2006	LDGV	22371	97.55%	561	2.45%	22,115	93.79%	1,464	6.21%	20,879	93.81%	1,377	6.19%	0	0.00%	0	0.00%
	LDGT1	16226	96.73%	548	3.27%	16,074	94.46%	942	5.54%	15,342	94.69%	861	5.31%	0	0.00%	0	0.00%
	LDGT2	7460	96.47%	273	3.53%	7,498	95.16%	381	4.84%	7,030	95.33%	344	4.67%	0	0.00%	0	0.00%
2006 Total		46057	97.09%	1,382	2.91%	45,687	94.25%	2,787	5.75%	43,251	94.37%	2,582	5.63%	0	0.00%	0	0.00%
2007	LDGV	31392	98.15%	592	1.85%	31,616	96.69%	1,081	3.31%	30,139	96.68%	1,036	3.32%	0	0.00%	0	0.00%
	LDGT1	25550	96.86%	829	3.14%	25,977	97.22%	743	2.78%	24,980	97.38%	671	2.62%	0	0.00%	0	0.00%
	LDGT2	10320	96.64%	359	3.36%	10,546	97.04%	322	2.96%	10,017	96.92%	318	3.08%	0	0.00%	0	0.00%
2007 Total		67262	97.42%	1,780	2.58%	68,139	96.95%	2,146	3.05%	65,136	96.98%	2,025	3.02%	0	0.00%	0	0.00%
2008	LDGV	16015	97.88%	347	2.12%	16,404	97.56%	411	2.44%	15,668	97.45%	410	2.55%	0	0.00%	0	0.00%
	LDGT1	12205	96.73%	412	3.27%	12,614	98.12%	242	1.88%	12,245	98.15%	231	1.85%	0	0.00%	0	0.00%
	LDGT2	6142	95.45%	293	4.55%	6,592	98.01%	134	1.99%	6,363	97.95%	133	2.05%	0	0.00%	0	0.00%
2008 Total		34362	97.03%	1,052	2.97%	35,610	97.84%	787	2.16%	34,276	97.79%	774	2.21%	0	0.00%	0	0.00%
2009	LDGV	26734	98.65%	367	1.35%	27,515	98.72%	356	1.28%	26,604	98.92%	290	1.08%	0	0.00%	0	0.00%
	LDGT1	15588	97.20%	449	2.80%	16,764	98.82%	201	1.18%	16,395	98.97%	170	1.03%	0	0.00%	0	0.00%
	LDGT2	5713	96.49%	208	3.51%	7,216	98.97%	75	1.03%	6,952	98.85%	81	1.15%	0	0.00%	0	0.00%
2009 Total		48035	97.91%	1,024	2.09%	51,495	98.79%	632	1.21%	49,951	98.93%	541	1.07%	0	0.00%	0	0.00%
2010	LDGV	5458	98.63%	76	1.37%	6,166	98.97%	64	1.03%	5,969	98.82%	71	1.18%	0	0.00%	0	0.00%
	LDGT1	4002	97.80%	90	2.20%	4,430	99.42%	26	0.58%	4,345	99.54%	20	0.46%	0	0.00%	0	0.00%
	LDGT2	1447	95.95%	61	4.05%	2,157	99.04%	21	0.96%	2,099	99.10%	19	0.90%	0	0.00%	0	0.00%
2010 Total		10907	97.96%	227	2.04%	12,753	99.14%	111	0.86%	12,413	99.12%	110	0.88%	0	0.00%	0	0.00%
2011	LDGV	2627	98.02%	53	1.98%	3,222	98.80%	39	1.20%	3,091	98.94%	33	1.06%	0	0.00%	0	0.00%
	LDGT1	1263	97.83%	28	2.17%	1,487	99.33%	10	0.67%	1,454	99.18%	12	0.82%	0	0.00%	0	0.00%
	LDGT2	614	95.94%	26	4.06%	839	99.06%	8	0.94%	822	98.92%	9	1.08%	0	0.00%	0	0.00%
2011 Total		4504	97.68%	107	2.32%	5,548	98.98%	57	1.02%	5,367	99.00%	54	1.00%	0	0.00%	0	0.00%
2012	LDGV	1953	98.59%	28	1.41%	2,431	99.47%	13	0.53%	2,313	99.27%	17	0.73%	0	0.00%	0	0.00%
	LDGT1	710	98.89%	8	1.11%	837	99.52%	4	0.48%	815	99.27%	6	0.73%	0	0.00%	0	0.00%
	LDGT2	373	98.42%	6	1.58%	501	99.21%	4	0.79%	485	99.18%	4	0.82%	0	0.00%	0	0.00%
2012 Total		3036	98.64%	42	1.36%	3,769	99.45%	21	0.55%	3,613	99.26%	27	0.74%	0	0.00%	0	0.00%
2013	LDGV	514	98.85%	6	1.15%	654	99.54%	3	0.46%	634	99.53%	3	0.47%	0	0.00%	0	0.00%
	LDGT1	220	98.65%	3	1.35%	370	99.73%	1	0.27%	361	99.72%	1	0.28%	0	0.00%	0	0.00%
	LDGT2	124	100.00%	0	0.00%	235	99.58%	1	0.42%	231	99.57%	1	0.43%	0	0.00%	0	0.00%
2013 Total		858	98.96%	9	1.04%	1,259	99.60%	5	0.40%	1,226	99.59%	5	0.41%	0	0.00%	0	0.00%
2014	LDGV	17	100.00%	0	0.00%	21	100.00%	0	0.00%	19	100.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	16	100.00%	0	0.00%	18	100.00%	0	0.00%	18	100.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	4	100.00%	0	0.00%	13	100.00%	0	0.00%	13	100.00%	0	0.00%	0	0.00%	0	0.00%
2014 Total		37	100.00%	0	0.00%	52	100.00%	0	0.00%	50	100.00%	0	0.00%	0	0.00%	0	0.00%
Grand Total		834556	95.82%	36,397	4.18%	782,839	88.30%	103,707	11.70%	628,208	88.42%	82,255	11.58%	0	0.00%	0	0.00%

Records 1 - 99 (All Records)

Summary by Vehicle Type (V1.01)

Vehicle Type	Cap Pressure				Eng Light				OBD				Evap System			
	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
LDGV	420364	96.50%	15255	3.50%	390628	87.78%	54366	12.22%	308683	88.01%	42056	11.99%	0	0.00%	0	0.00%
LDGT1	296137	95.33%	14498	4.67%	278547	88.89%	34832	11.11%	229603	88.91%	28627	11.09%	0	0.00%	0	0.00%
LDGT2	118055	94.67%	6644	5.33%	113664	88.68%	14509	11.32%	89922	88.60%	11572	11.40%	0	0.00%	0	0.00%
Grand Total	834556	95.82%	36397	4.18%	782839	88.30%	103707	11.70%	628208	88.42%	82255	11.58%	0	0.00%	0	0.00%

Appendix F

I/M240 Retest Pass Reduction Report

Retest Pass Reduction Report (V1.01)

Vehicle		Initial Exhaust Emissions				Passing Retest Exhaust Emissions					Emission Reductions						Average Repair Costs
Year	Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Avg HC(gpm)	Avg HC%(gpm)	Avg CO(gpm)	Avg CO%(gpm)	Avg NOx(gpm)	Avg NOx%(gpm)	
1982	LDGV	135	3.9526	62.3242	2.0092	71	52.59%	1.5949	18.6454	1.8835	1.9291	54.74%	32.8767	63.81%	0.1208	6.03%	294.80
	LDGT1	148	4.6543	78.2063	2.2817	85	57.43%	2.2920	30.2620	2.5528	2.0826	47.61%	36.0776	54.38%	-0.0580	-2.33%	493.50
	LDGT2	71	5.6614	113.9938	2.5201	27	38.03%	2.5829	33.8769	2.5087	1.6465	38.93%	58.1311	63.18%	-0.3704	-17.32%	0.00
1982 Total		354	4.5887	79.3273	2.2256	183	51.69%	2.0644	26.2883	2.2866	1.9587	48.69%	38.0895	59.17%	-0.0347	-1.54%	351.57
1983	LDGV	229	3.2681	52.6997	2.0450	110	48.03%	1.2695	14.7202	1.8542	1.3147	50.87%	23.7199	61.71%	0.2244	10.79%	172.25
	LDGT1	199	4.9164	76.1849	3.0050	118	59.30%	2.4903	25.8784	2.8112	2.1611	46.46%	33.4039	56.35%	0.2972	9.56%	188.67
	LDGT2	141	4.6750	97.9107	2.5748	68	48.23%	2.2405	33.0239	2.5906	2.0347	47.59%	37.8629	53.41%	0.2240	7.96%	439.25
1983 Total		569	4.1932	72.1167	2.5120	296	52.02%	1.9793	23.3733	2.4049	1.8175	47.87%	30.8295	56.88%	0.2533	9.53%	273.82
1984	LDGV	357	3.4060	50.4296	2.0308	153	42.86%	1.4651	13.9947	2.1018	1.2683	46.40%	21.2614	60.31%	-0.0442	-2.15%	193.25
	LDGT1	332	4.8733	67.3856	2.6445	175	52.71%	2.1556	23.8775	2.6274	2.1451	49.88%	32.4484	57.61%	-0.0465	-1.80%	280.40
	LDGT2	215	6.5783	89.9194	2.7786	80	37.21%	1.7552	23.9844	2.9298	1.7616	50.09%	38.9223	61.87%	0.2896	9.00%	264.50
1984 Total		904	4.6993	66.0488	2.4341	408	45.13%	1.8182	20.1924	2.4896	1.7411	48.92%	29.5226	59.38%	0.0203	0.81%	245.82
1985	LDGV	485	3.2474	45.4333	2.0803	246	50.72%	1.0867	9.7424	1.9218	1.3002	54.47%	22.1302	69.43%	0.1858	8.82%	222.81
	LDGT1	423	4.1376	70.2626	2.5972	223	52.72%	1.8856	20.8070	2.7494	1.3317	41.39%	31.6096	60.30%	0.1021	3.58%	29.00
	LDGT2	293	4.7745	78.1648	3.0325	110	37.54%	1.9138	24.0695	3.0628	1.9251	50.15%	30.8796	56.20%	0.2468	7.46%	847.00
1985 Total		1201	3.9335	62.1636	2.4946	579	48.21%	1.5515	16.7258	2.4573	1.4311	47.98%	27.4434	62.13%	0.1651	6.30%	235.26
1986	LDGV	458	3.3921	39.6974	2.0984	218	47.60%	1.0681	8.8421	1.8682	1.2809	54.53%	19.0321	68.28%	0.2963	13.69%	213.33
	LDGT1	445	3.5098	58.3629	2.4409	261	58.65%	1.7419	17.6676	2.7032	1.2612	42.00%	24.8160	58.41%	-0.0395	-1.48%	181.44
	LDGT2	307	6.2163	79.5901	2.8929	117	38.11%	1.9002	19.3830	2.9546	2.5884	57.67%	29.3792	60.25%	0.0657	2.17%	185.00
1986 Total		1210	4.1519	56.6835	2.4259	596	49.26%	1.5265	14.7762	2.4471	1.5290	50.04%	23.5962	61.49%	0.1040	4.08%	194.29
1987	LDGV	550	3.0162	40.8173	2.0061	290	52.73%	1.0380	9.1284	1.7293	1.3345	56.25%	18.9315	67.47%	0.3552	17.04%	428.40
	LDGT1	585	3.6611	46.9458	2.4652	317	54.19%	1.4218	13.4473	2.4323	1.4058	49.72%	23.9871	64.08%	0.0263	1.07%	229.56
	LDGT2	222	3.9982	47.4210	3.3748	104	46.85%	1.6210	12.8903	2.8873	1.5574	49.00%	17.0288	56.92%	0.4022	12.23%	335.57
1987 Total		1357	3.4549	44.5396	2.4279	711	52.39%	1.2944	11.6043	2.2121	1.3989	51.94%	20.9072	64.31%	0.2155	8.88%	312.24
1988	LDGV	568	3.0203	32.7021	2.0653	286	50.35%	0.9426	8.6821	1.6543	1.6116	63.10%	18.3702	67.91%	0.2626	13.70%	340.78
	LDGT1	602	3.0897	37.6494	2.5738	343	56.98%	1.3134	12.5381	2.0931	1.3849	51.33%	17.6471	58.46%	0.4256	16.90%	395.88
	LDGT2	217	3.9235	35.6152	3.7652	124	57.14%	1.4954	12.0895	2.7189	1.0703	41.72%	15.2741	55.82%	0.6867	20.16%	195.11
1988 Total		1387	3.1917	35.3052	2.5520	753	54.29%	1.2025	10.9996	2.0295	1.4192	54.13%	17.5310	61.45%	0.4067	16.69%	307.31
1989	LDGV	738	2.6736	32.6595	1.9398	429	58.13%	0.8945	8.4649	1.6096	1.3621	60.36%	17.6723	67.61%	0.2303	12.52%	246.86
	LDGT1	884	3.4785	44.4688	2.4844	476	53.85%	1.2803	12.1659	2.1378	1.6006	55.56%	21.7181	64.10%	0.3304	13.39%	174.30
	LDGT2	325	4.7291	40.6485	3.6932	172	52.92%	1.4481	11.8668	2.9105	1.9439	57.31%	17.2846	59.29%	0.6479	18.21%	221.50
1989 Total		1947	3.3822	39.3549	2.4797	1077	55.32%	1.1534	10.6439	2.0508	1.5604	57.50%	19.3985	64.57%	0.3412	14.26%	212.36
1990	LDGV	1039	2.5930	31.0287	2.3002	559	53.80%	0.8478	8.1947	1.7078	1.1830	58.25%	16.9326	67.39%	0.4107	19.39%	369.93
	LDGT1	754	3.2748	47.7381	2.2754	410	54.38%	1.2190	11.5833	2.1554	1.3302	52.18%	21.1650	64.63%	0.3289	13.24%	372.67
	LDGT2	327	3.6513	34.7979	3.0295	187	57.19%	1.4531	12.5753	2.5483	1.8600	56.14%	19.6101	60.93%	0.5032	16.49%	465.20
1990 Total		2120	2.9987	37.5529	2.4039	1156	54.53%	1.0774	10.1052	2.0025	1.3447	55.52%	18.8669	65.12%	0.3967	16.53%	385.15
1991	LDGV	1614	2.3204	26.3797	2.1957	880	54.52%	0.7260	7.0719	1.5619	1.1181	60.63%	16.3809	69.85%	0.4399	21.97%	287.46
	LDGT1	982	2.7027	33.7711	2.7467	569	57.94%	1.0507	10.2187	1.9733	1.2911	55.13%	18.3520	64.23%	0.4965	20.10%	224.18
	LDGT2	383	3.2299	34.0939	3.1929	220	57.44%	1.2781	11.0237	2.4579	1.3715	51.76%	15.7635	58.85%	0.6285	20.36%	286.75
1991 Total		2979	2.5633	29.8080	2.5055	1669	56.03%	0.9095	8.6656	1.8203	1.2105	57.10%	16.9715	66.20%	0.4841	21.01%	269.54
1992	LDGV	1628	2.1014	27.5998	1.9708	859	52.76%	0.6718	6.4921	1.5142	1.0069	59.98%	17.2677	72.68%	0.2645	14.87%	308.00
	LDGT1	779	2.6191	30.8678	2.6594	496	63.67%	1.0468	10.5171	2.0290	1.0836	50.87%	15.0612	58.88%	0.4338	17.62%	407.00
	LDGT2	603	3.7486	32.4805	3.0749	292	48.42%	1.3266	12.2555	2.2888	1.5957	54.60%	13.4260	52.28%	0.7576	24.87%	421.89
1992 Total		3010	2.5653	29.4233	2.3702	1647	54.72%	0.9008	8.7261	1.8066	1.1344	55.74%	15.9221	64.60%	0.4029	18.24%	354.43

Vehicle		Initial Exhaust Emissions				Passing Retest Exhaust Emissions					Emission Reductions						Average Repair Costs
Year	Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Avg HC(gpm)	Avg HC%(gpm)	Avg CO(gpm)	Avg CO%(gpm)	Avg NOx(gpm)	Avg NOx%(gpm)	
1993	LDGV	1811	1.8753	24.4248	2.2214	1045	57.70%	0.6473	6.2916	1.5925	0.8014	55.32%	14.0438	69.06%	0.4431	21.77%	265.64
	LDGT1	1133	2.9233	31.7714	3.1250	716	63.20%	1.0058	9.8336	1.9877	1.3810	57.86%	15.7062	61.50%	0.8808	30.71%	321.59
	LDGT2	843	3.2268	29.2118	3.2495	423	50.18%	1.3287	11.6620	2.2930	1.3621	50.62%	14.6808	55.73%	0.8101	26.11%	380.07
1993 Total		3787	2.4897	27.6884	2.7206	2184	57.67%	0.8968	8.4930	1.8577	1.1000	55.09%	14.7122	63.40%	0.6577	26.15%	307.01
1994	LDGV	1902	2.0292	23.5125	2.0504	1026	53.94%	0.5307	5.6308	1.2711	1.0714	66.87%	13.3110	70.27%	0.4526	26.26%	280.44
	LDGT1	1543	2.5108	26.7498	2.8881	922	59.75%	0.8172	8.7094	1.8554	1.0986	57.34%	13.3088	60.44%	0.7470	28.71%	265.68
	LDGT2	1271	3.3396	28.1442	3.0607	654	51.46%	0.9394	9.6084	1.9460	1.4324	60.39%	14.0570	59.40%	0.9952	33.84%	291.50
1994 Total		4716	2.5399	25.8200	2.5968	2602	55.17%	0.7350	7.7214	1.6478	1.1718	61.45%	13.4977	63.61%	0.6933	29.62%	278.94
1995	LDGV	2639	1.7357	18.6599	1.9678	1464	55.48%	0.4858	5.2029	1.1897	0.9064	65.11%	11.8349	69.46%	0.4076	25.52%	229.00
	LDGT1	1960	2.3712	23.8454	3.1030	1169	59.64%	0.7647	8.1381	1.8348	1.1372	59.79%	13.0227	61.54%	0.9227	33.46%	300.29
	LDGT2	1848	2.8198	25.6206	3.2070	914	49.46%	0.9299	9.3532	1.9219	1.2741	57.81%	12.6844	57.56%	1.0822	36.02%	382.15
1995 Total		6447	2.2397	22.2316	2.6681	3547	55.02%	0.6922	7.2397	1.5910	1.0772	60.88%	12.4453	63.22%	0.7512	32.07%	315.73
1996	LDGV	2315	1.3987	17.5793	1.7849	1385	59.83%	0.3876	4.4355	0.9446	0.6434	62.40%	9.5805	68.35%	0.5602	37.23%	232.89
	LDGT1	1618	1.2082	16.5573	2.6185	1128	69.72%	0.4261	5.6382	1.5612	0.5279	55.33%	7.7852	58.00%	0.7200	31.56%	273.29
	LDGT2	818	1.8918	18.8978	2.7059	526	64.30%	0.5249	6.0953	1.4179	0.8527	61.90%	9.1731	60.08%	0.9391	39.84%	335.77
1996 Total		4751	1.4187	17.4583	2.2274	3039	63.97%	0.4257	5.1692	1.2554	0.6368	59.93%	8.8436	63.11%	0.6851	35.30%	268.72
1997	LDGV	2768	1.1016	15.3209	1.6285	1782	64.38%	0.3570	4.4385	0.8896	0.4954	58.12%	8.2930	65.14%	0.4197	32.05%	257.61
	LDGT1	2880	1.1164	15.2892	2.4827	1941	67.40%	0.4026	5.5157	1.3618	0.4785	54.31%	7.3458	57.11%	0.7458	35.39%	309.86
	LDGT2	1260	1.7248	17.5950	2.9074	757	60.08%	0.4594	5.9100	1.4245	0.6848	59.85%	9.0147	60.40%	0.9900	41.00%	393.75
1997 Total		6908	1.2214	15.7225	2.2179	4480	64.85%	0.3940	5.1539	1.1846	0.5201	56.89%	8.0046	60.83%	0.6573	35.69%	311.57
1998	LDGV	2896	1.0904	15.8663	1.5211	1836	63.40%	0.2827	3.8685	0.6957	0.5534	66.19%	9.3401	70.71%	0.5281	43.15%	320.21
	LDGT1	2786	1.0744	15.0890	2.3951	1847	66.30%	0.3669	4.8434	1.2682	0.4879	57.08%	7.5266	60.85%	0.7458	37.03%	361.23
	LDGT2	1248	1.7390	17.4792	2.8541	726	58.17%	0.4082	5.6573	1.3319	0.8526	67.62%	8.2713	59.38%	1.1230	45.75%	176.64
1998 Total		6930	1.2008	15.8443	2.1125	4409	63.62%	0.3386	4.5714	1.0403	0.5752	62.94%	8.4044	64.77%	0.7172	40.81%	308.27
1999	LDGV	3562	0.8521	11.8921	1.5807	2373	66.62%	0.2405	3.3658	0.6563	0.4426	64.79%	6.7917	66.86%	0.6014	47.82%	294.72
	LDGT1	2814	0.8389	12.1011	2.0327	1981	70.40%	0.2808	3.7906	0.9570	0.3027	51.88%	5.4396	58.93%	0.7329	43.37%	311.89
	LDGT2	2080	1.2545	14.5885	2.5594	1202	57.79%	0.3446	4.1550	1.1021	0.6049	63.71%	8.5005	67.17%	1.0811	49.52%	385.70
1999 Total		8456	0.9467	12.6249	1.9719	5556	65.70%	0.2774	3.6880	0.8600	0.4278	60.67%	6.6793	64.43%	0.7521	46.65%	322.17
2000	LDGV	3386	0.7652	11.6672	1.6514	2213	65.36%	0.2104	3.2515	0.5769	0.3634	63.32%	6.3137	66.01%	0.7485	56.47%	309.76
	LDGT1	2439	0.7019	11.6549	1.8663	1725	70.73%	0.2564	3.6576	0.8732	0.2677	51.08%	5.3804	59.53%	0.6481	42.60%	283.84
	LDGT2	1186	1.1746	14.9949	2.1478	760	64.08%	0.2801	4.0305	0.9679	0.4704	62.68%	7.0875	63.75%	0.7115	42.36%	325.70
2000 Total		7011	0.8125	12.2258	1.8101	4698	67.01%	0.2386	3.5266	0.7490	0.3456	59.16%	6.0962	63.35%	0.7057	48.51%	302.13
2001	LDGV	2772	0.7539	10.3822	1.4018	2010	72.51%	0.1637	2.6822	0.4229	0.3962	70.76%	5.4937	67.19%	0.6505	60.60%	346.52
	LDGT1	2043	0.4461	10.8568	1.4172	1577	77.19%	0.1559	2.9445	0.5398	0.1912	55.09%	5.0905	63.35%	0.5080	48.48%	330.32
	LDGT2	1096	0.7618	10.7961	1.8294	840	76.64%	0.2603	3.7075	0.8135	0.3393	56.59%	5.1651	58.21%	0.5487	40.28%	281.05
2001 Total		5911	0.6490	10.6230	1.4864	4427	74.89%	0.1792	2.9702	0.5387	0.3124	63.54%	5.2877	64.03%	0.5804	51.87%	323.70
2002	LDGV	2544	0.6007	9.5947	1.3176	1889	74.25%	0.1338	2.3702	0.3735	0.3321	71.28%	4.8208	67.04%	0.5586	59.93%	261.00
	LDGT1	1681	0.6193	15.5006	1.4155	1254	74.60%	0.1521	3.0234	0.5311	0.3054	66.75%	8.3951	73.52%	0.5326	50.07%	292.21
	LDGT2	703	0.4947	8.6057	1.6026	530	75.39%	0.2280	3.5424	0.8112	0.1651	42.00%	3.7930	51.71%	0.3924	32.60%	54.75
2002 Total		4928	0.5919	11.4682	1.3916	3673	74.53%	0.1536	2.7623	0.4905	0.2989	66.05%	5.8928	68.08%	0.5257	51.73%	251.30
2003	LDGV	2027	0.4626	6.6108	1.1090	1624	80.12%	0.1087	1.9792	0.3076	0.2556	70.16%	3.3587	62.92%	0.4803	60.96%	286.67
	LDGT1	1435	0.3639	9.5182	0.8797	1244	86.69%	0.1101	2.5466	0.3843	0.1643	59.87%	4.5312	64.02%	0.3206	45.48%	329.53
	LDGT2	677	0.8823	11.4468	1.2425	558	82.42%	0.1825	2.7458	0.5582	0.3186	63.58%	5.6838	67.43%	0.3829	40.68%	387.17
2003 Total		4139	0.4970	8.4098	1.0513	3426	82.77%	0.1212	2.3101	0.3763	0.2327	65.75%	4.1631	64.31%	0.4064	51.93%	321.71

Vehicle		Initial Exhaust Emissions				Passing Retest Exhaust Emissions					Emission Reductions						Average Repair Costs
Year	Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Avg HC(gpm)	Avg HC%(gpm)	Avg CO(gpm)	Avg CO%(gpm)	Avg NOx(gpm)	Avg NOx%(gpm)	
2004	LDGV	1507	0.4777	7.5203	0.9805	1217	80.76%	0.0985	1.9674	0.2374	0.2403	70.93%	3.6978	65.27%	0.4183	63.80%	314.62
	LDGT1	1083	0.3001	7.9762	0.8260	927	85.60%	0.0963	2.3465	0.2672	0.1415	59.51%	3.5519	60.22%	0.3555	57.09%	384.55
	LDGT2	582	0.5095	9.4018	1.0208	497	85.40%	0.1217	2.5671	0.3205	0.3065	71.58%	4.9443	65.82%	0.3641	53.18%	83.20
2004 Total		3172	0.4229	8.0212	0.9351	2641	83.26%	0.1021	2.2133	0.2635	0.2181	68.12%	3.8812	63.68%	0.3861	59.44%	301.24
2005	LDGV	1677	0.3482	5.7474	0.7370	1491	88.91%	0.0697	1.3718	0.1757	0.1543	68.86%	2.8098	67.19%	0.3751	68.10%	192.88
	LDGT1	980	0.1634	3.4479	0.5219	927	94.59%	0.0693	1.7256	0.1869	0.0758	52.24%	1.3473	43.84%	0.2074	52.60%	120.00
	LDGT2	462	0.5377	7.1186	1.1048	371	80.30%	0.1255	2.1845	0.2779	0.2730	68.51%	3.0333	58.13%	0.3916	58.49%	345.50
2005 Total		3119	0.3182	5.2280	0.7239	2789	89.42%	0.0770	1.5975	0.1930	0.1440	65.15%	2.3534	59.57%	0.3215	62.49%	190.42
2006	LDGV	993	0.3979	6.9622	1.1511	853	85.90%	0.0705	1.5004	0.1708	0.2225	75.93%	3.9666	72.55%	0.7241	80.92%	333.60
	LDGT1	665	0.1149	2.7680	0.5578	628	94.44%	0.0551	1.3441	0.1663	0.0394	41.71%	0.9394	41.14%	0.2732	62.17%	21.78
	LDGT2	380	0.3614	4.6016	1.0696	331	87.11%	0.0890	1.4956	0.2011	0.1556	63.60%	2.0436	57.74%	0.5061	71.56%	196.00
2006 Total		2038	0.2987	5.1535	0.9423	1812	88.91%	0.0685	1.4454	0.1748	0.1468	68.17%	2.5662	63.97%	0.5280	75.13%	187.27
2007	LDGV	837	0.2092	3.6712	0.8452	767	91.64%	0.0469	1.2605	0.1178	0.1095	70.02%	1.5995	55.93%	0.5602	82.62%	58.67
	LDGT1	948	0.0873	3.2576	0.2374	913	96.31%	0.0347	1.3403	0.0884	0.0334	49.10%	1.0315	43.49%	0.1267	58.91%	141.25
	LDGT2	385	0.1761	2.9987	0.3424	369	95.84%	0.0653	1.5299	0.1426	0.0743	53.21%	0.7467	32.80%	0.0882	38.23%	455.00
2007 Total		2170	0.1501	3.3712	0.4905	2049	94.42%	0.0448	1.3446	0.1092	0.0693	60.75%	1.1929	47.01%	0.2821	72.09%	149.50
2008	LDGV	558	0.2715	4.3345	1.0549	509	91.22%	0.0588	1.4227	0.1266	0.1845	75.83%	2.3555	62.34%	0.7978	86.30%	250.00
	LDGT1	479	0.0390	1.5162	0.3703	463	96.66%	0.0273	0.8902	0.0627	0.0094	25.60%	0.5347	37.53%	0.2508	79.99%	518.00
	LDGT2	351	0.1806	4.7510	0.2037	323	92.02%	0.0681	2.7659	0.1130	0.1032	60.25%	0.9189	24.94%	0.0663	36.98%	0.00
2008 Total		1388	0.1683	3.4672	0.6034	1295	93.30%	0.0499	1.5674	0.1004	0.1016	67.09%	1.3462	46.20%	0.4198	80.70%	303.60
2009	LDGV	506	0.2247	3.4474	0.8252	472	93.28%	0.0495	1.4151	0.0953	0.1016	67.24%	1.0390	42.34%	0.6093	86.47%	207.83
	LDGT1	479	0.0325	1.2939	0.1987	473	98.75%	0.0208	1.0208	0.0488	0.0116	35.85%	0.2462	19.43%	0.1459	74.95%	282.80
	LDGT2	210	0.0370	0.7721	0.0662	209	99.52%	0.0450	1.3498	0.0794	-0.0080	-21.51%	-0.5832	-76.08%	-0.0132	-19.92%	3.00
2009 Total		1195	0.1147	2.1140	0.4407	1154	96.57%	0.0369	1.2417	0.0734	0.0449	54.86%	0.4202	25.29%	0.3066	80.70%	222.00
2010	LDGV	108	0.2506	4.5000	0.7442	99	91.67%	0.0538	1.3340	0.0904	0.1354	71.56%	2.0180	60.20%	0.5413	85.68%	0.00
	LDGT1	95	0.0768	2.7058	0.1141	91	95.79%	0.0211	0.8029	0.0404	0.0426	66.86%	1.8403	69.62%	0.0438	52.01%	0.00
	LDGT2	57	0.0505	1.5079	0.0470	57	100.00%	0.0306	1.1891	0.0782	0.0199	39.48%	0.3188	21.14%	-0.0312	-66.22%	0.00
2010 Total		260	0.1433	3.1885	0.3612	247	95.00%	0.0364	1.1049	0.0692	0.0745	67.19%	1.5604	58.54%	0.2259	76.55%	0.00
2011	LDGV	53	0.1047	1.7620	0.3548	52	98.11%	0.0431	1.2593	0.0790	0.0534	55.32%	0.4062	24.39%	0.2359	74.91%	0.00
	LDGT1	28	0.0418	2.8697	0.0511	28	100.00%	0.0219	0.7645	0.0897	0.0200	47.77%	2.1053	73.36%	-0.0387	-75.69%	0.00
	LDGT2	25	0.0299	0.6992	0.2979	25	100.00%	0.0262	1.6317	0.0654	0.0037	12.43%	-0.9325	-133.37%	0.2325	78.05%	0.00
2011 Total		106	0.0705	1.8039	0.2612	105	99.06%	0.0334	1.2160	0.0786	0.0327	49.42%	0.5406	30.77%	0.1619	67.31%	0.00
2012	LDGV	29	0.0624	3.4983	0.1701	29	100.00%	0.0146	1.2118	0.0308	0.0479	76.69%	2.2865	65.36%	0.1393	81.88%	0.00
	LDGT1	8	0.0297	0.6991	0.0414	8	100.00%	0.0114	0.6221	0.0272	0.0183	61.47%	0.0770	11.02%	0.0142	34.35%	0.00
	LDGT2	4	0.0591	0.8318	0.0896	4	100.00%	0.0264	0.6325	0.1402	0.0327	55.26%	0.1993	23.96%	-0.0506	-56.47%	0.00
2012 Total		41	0.0557	2.6920	0.1372	41	100.00%	0.0151	1.0402	0.0408	0.0406	72.89%	1.6517	61.36%	0.0964	70.26%	0.00
2013	LDGV	4	0.0109	0.6925	0.1828	3	75.00%	0.0160	0.2448	0.0146	-0.0063	-65.29%	0.4701	65.76%	0.2153	93.65%	0.00
	LDGT1	1	0.0240	0.7613	0.0420	1	100.00%	0.0092	1.5796	0.0076	0.0148	61.67%	-0.8183	-107.49%	0.0344	81.90%	0.00
	LDGT2	2	0.0166	0.5989	0.0408	2	100.00%	0.0052	0.2820	0.0316	0.0113	68.28%	0.3170	52.92%	0.0092	22.58%	0.00
2013 Total		7	0.0144	0.6756	0.1221	6	85.71%	0.0113	0.4796	0.0191	0.0031	21.35%	0.2043	29.87%	0.1165	85.92%	0.00
Grand Total		94518	1.4914	19.0547	1.9156	63255	66.92%	0.4263	5.0288	0.9825	0.5925	58.16%	8.6367	63.20%	0.5517	35.96%	292.71

Records 1 - 96 (All Records)

Summary by Vehicle Type (V1.01)

Vehicle Type	Initial Exhaust Emissions				Passing Retest Exhaust Emissions					Emission Reductions						Average Repair Costs
	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Avg HC(gpm)	Avg HC%(gpm)	Avg CO(gpm)	Avg CO%(gpm)	Avg NOx(gpm)	Avg NOx%(gpm)	
LDGV	42695	1.2758	16.7487	1.6121	28240	66.14%	0.3336	3.9750	0.7619	0.5566	62.52%	8.3801	67.83%	0.5093	40.06%	280.15
LDGT1	33231	1.4465	20.0813	2.0133	23436	70.52%	0.4690	5.6343	1.1066	0.5509	54.01%	8.6786	60.63%	0.5312	32.43%	291.09
LDGT2	18592	2.0667	22.5153	2.4380	11579	62.28%	0.5655	6.3734	1.2697	0.7640	57.47%	9.1776	59.02%	0.6968	35.43%	321.64
Grand Total	94518	1.4914	19.0547	1.9156	63255	66.92%	0.4263	5.0288	0.9825	0.5925	58.16%	8.6367	63.20%	0.5517	35.96%	292.71

Appendix G

I/M240 Retest Frequency Report

Retest Frequency Report (V1.01)

Vehicle			Avg Retest	Retest #1				Retest #2				Retest #3				Retest #4				Retest >= #5			
Year	Type	Total	#	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt %	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%
1982	LDGV	135	1.8	70	51.85%	40	57.14%	33	24.44%	18	54.55%	15	11.11%	4	26.67%	8	5.93%	6	75.00%	9	6.67%	3	33.33%
	LDGT1	148	1.5	101	68.24%	65	64.36%	23	15.54%	11	47.83%	10	6.76%	2	20.00%	8	5.41%	5	62.50%	6	4.05%	2	33.33%
	LDGT2	71	2.4	32	45.07%	11	34.38%	16	22.54%	5	31.25%	12	16.90%	6	50.00%	5	7.04%	2	40.00%	6	8.45%	3	50.00%
1982 Total		354	1.8	203	57.34%	116	57.14%	72	20.34%	34	47.22%	37	10.45%	12	32.43%	21	5.93%	13	61.90%	21	5.93%	8	38.10%
1983	LDGV	229	1.7	125	54.59%	75	60.00%	47	20.52%	21	44.68%	18	7.86%	4	22.22%	13	5.68%	2	15.38%	26	11.35%	8	30.77%
	LDGT1	199	1.5	126	63.32%	86	68.25%	34	17.09%	18	52.94%	19	9.55%	7	36.84%	10	5.03%	4	40.00%	10	5.03%	3	30.00%
	LDGT2	141	1.9	66	46.81%	43	65.15%	26	18.44%	7	26.92%	21	14.89%	9	42.86%	12	8.51%	5	41.67%	16	11.35%	4	25.00%
1983 Total		569	1.7	317	55.71%	204	64.35%	107	18.80%	46	42.99%	58	10.19%	20	34.48%	35	6.15%	11	31.43%	52	9.14%	15	28.85%
1984	LDGV	357	1.8	186	52.10%	101	54.30%	70	19.61%	26	37.14%	39	10.92%	6	15.38%	26	7.28%	10	38.46%	36	10.08%	10	27.78%
	LDGT1	332	1.7	190	57.23%	113	59.47%	73	21.99%	35	47.95%	31	9.34%	9	29.03%	23	6.93%	15	65.22%	15	4.52%	3	20.00%
	LDGT2	215	2.1	90	41.86%	39	43.33%	50	23.26%	17	34.00%	35	16.28%	15	42.86%	17	7.91%	1	5.88%	23	10.70%	8	34.78%
1984 Total		904	1.8	466	51.55%	253	54.29%	193	21.35%	78	40.41%	105	11.62%	30	28.57%	66	7.30%	26	39.39%	74	8.19%	21	28.38%
1985	LDGV	485	1.8	276	56.91%	156	56.52%	100	20.62%	45	45.00%	48	9.90%	20	41.67%	27	5.57%	15	55.56%	34	7.01%	10	29.41%
	LDGT1	423	1.7	248	58.63%	144	58.06%	93	21.99%	47	50.54%	41	9.69%	17	41.46%	21	4.96%	10	47.62%	20	4.73%	5	25.00%
	LDGT2	293	2	131	44.71%	57	43.51%	66	22.53%	20	30.30%	44	15.02%	21	47.73%	18	6.14%	4	22.22%	34	11.60%	8	23.53%
1985 Total		1201	1.8	655	54.54%	357	54.50%	259	21.57%	112	43.24%	133	11.07%	58	43.61%	66	5.50%	29	43.94%	88	7.33%	23	26.14%
1986	LDGV	458	1.9	242	52.84%	133	54.96%	95	20.74%	41	43.16%	52	11.35%	22	42.31%	26	5.68%	7	26.92%	43	9.39%	15	34.88%
	LDGT1	445	1.5	278	62.47%	192	69.06%	80	17.98%	37	46.25%	43	9.66%	16	37.21%	23	5.17%	9	39.13%	21	4.72%	7	33.33%
	LDGT2	307	2.1	144	46.91%	66	45.83%	61	19.87%	19	31.15%	35	11.40%	8	22.86%	29	9.45%	11	37.93%	38	12.38%	13	34.21%
1986 Total		1210	1.8	664	54.88%	391	58.89%	236	19.50%	97	41.10%	130	10.74%	46	35.38%	78	6.45%	27	34.62%	102	8.43%	35	34.31%
1987	LDGV	550	1.6	327	59.45%	204	62.39%	103	18.73%	47	45.63%	51	9.27%	15	29.41%	32	5.82%	14	43.75%	37	6.73%	10	27.03%
	LDGT1	585	1.6	361	61.71%	215	59.56%	115	19.66%	51	44.35%	56	9.57%	32	57.14%	23	3.93%	6	26.09%	30	5.13%	13	43.33%
	LDGT2	222	1.8	123	55.41%	68	55.28%	41	18.47%	16	39.02%	27	12.16%	8	29.63%	13	5.86%	6	46.15%	18	8.11%	6	33.33%
1987 Total		1357	1.6	811	59.76%	487	60.05%	259	19.09%	114	44.02%	134	9.87%	55	41.04%	68	5.01%	26	38.24%	85	6.26%	29	34.12%
1988	LDGV	568	1.8	310	54.58%	183	59.03%	119	20.95%	53	44.54%	64	11.27%	23	35.94%	31	5.46%	12	38.71%	44	7.75%	15	34.09%
	LDGT1	602	1.6	367	60.96%	239	65.12%	117	19.44%	55	47.01%	58	9.63%	26	44.83%	27	4.49%	10	37.04%	33	5.48%	13	39.39%
	LDGT2	217	1.7	127	58.53%	79	62.20%	41	18.89%	24	58.54%	21	9.68%	9	42.86%	14	6.45%	5	35.71%	14	6.45%	7	50.00%
1988 Total		1387	1.7	804	57.97%	501	62.31%	277	19.97%	132	47.65%	143	10.31%	58	40.56%	72	5.19%	27	37.50%	91	6.56%	35	38.46%
1989	LDGV	738	1.5	475	64.36%	317	66.74%	137	18.56%	62	45.26%	67	9.08%	25	37.31%	31	4.20%	14	45.16%	28	3.79%	11	39.29%
	LDGT1	884	1.7	512	57.92%	319	62.30%	172	19.46%	83	48.26%	80	9.05%	33	41.25%	44	4.98%	18	40.91%	76	8.60%	23	30.26%
	LDGT2	325	1.6	187	57.54%	117	62.57%	68	20.92%	26	38.24%	37	11.38%	16	43.24%	20	6.15%	7	35.00%	13	4.00%	6	46.15%
1989 Total		1947	1.6	1174	60.30%	753	64.14%	377	19.36%	171	45.36%	184	9.45%	74	40.22%	95	4.88%	39	41.05%	117	6.01%	40	34.19%
1990	LDGV	1039	1.6	605	58.23%	383	63.31%	212	20.40%	83	39.15%	119	11.45%	51	42.86%	52	5.00%	24	46.15%	51	4.91%	18	35.29%
	LDGT1	754	1.7	444	58.89%	284	63.96%	141	18.70%	61	43.26%	76	10.08%	33	43.42%	41	5.44%	13	31.71%	52	6.90%	19	36.54%
	LDGT2	327	1.7	195	59.63%	120	61.54%	67	20.49%	31	46.27%	39	11.93%	23	58.97%	13	3.98%	8	61.54%	13	3.98%	5	38.46%
1990 Total		2120	1.6	1244	58.68%	787	63.26%	420	19.81%	175	41.67%	234	11.04%	107	45.73%	106	5.00%	45	42.45%	116	5.47%	42	36.21%

Vehicle			Avg Retest #	Retest #1				Retest #2				Retest #3				Retest #4				Retest >= #5			
Year	Type	Total		Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt %	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%
1991	LDGV	1614	1.6	980	60.72%	616	62.86%	320	19.83%	142	44.38%	150	9.29%	61	40.67%	80	4.96%	31	38.75%	84	5.20%	30	35.71%
	LDGT1	982	1.6	603	61.41%	406	67.33%	186	18.94%	87	46.77%	88	8.96%	32	36.36%	46	4.68%	18	39.13%	59	6.01%	26	44.07%
	LDGT2	383	1.6	246	64.23%	152	61.79%	75	19.58%	38	50.67%	30	7.83%	12	40.00%	15	3.92%	9	60.00%	17	4.44%	9	52.94%
1991 Total		2979	1.6	1829	61.40%	1174	64.19%	581	19.50%	267	45.96%	268	9.00%	105	39.18%	141	4.73%	58	41.13%	160	5.37%	65	40.63%
1992	LDGV	1628	1.7	945	58.05%	583	61.69%	332	20.39%	146	43.98%	158	9.71%	57	36.08%	88	5.41%	34	38.64%	105	6.45%	39	37.14%
	LDGT1	779	1.5	520	66.75%	370	71.15%	137	17.59%	66	48.18%	64	8.22%	36	56.25%	29	3.72%	11	37.93%	29	3.72%	13	44.83%
	LDGT2	603	1.9	309	51.24%	170	55.02%	135	22.39%	62	45.93%	64	10.61%	28	43.75%	35	5.80%	13	37.14%	60	9.95%	19	31.67%
1992 Total		3010	1.6	1774	58.94%	1123	63.30%	604	20.07%	274	45.36%	286	9.50%	121	42.31%	152	5.05%	58	38.16%	194	6.45%	71	36.60%
1993	LDGV	1811	1.5	1158	63.94%	737	63.64%	363	20.04%	176	48.48%	162	8.95%	74	45.68%	68	3.75%	32	47.06%	60	3.31%	26	43.33%
	LDGT1	1133	1.5	759	66.99%	529	69.70%	198	17.48%	99	50.00%	96	8.47%	48	50.00%	40	3.53%	17	42.50%	40	3.53%	23	57.50%
	LDGT2	843	1.8	463	54.92%	268	57.88%	175	20.76%	79	45.14%	94	11.15%	28	29.79%	58	6.88%	26	44.83%	53	6.29%	22	41.51%
1993 Total		3787	1.6	2380	62.85%	1534	64.45%	736	19.43%	354	48.10%	352	9.29%	150	42.61%	166	4.38%	75	45.18%	153	4.04%	71	46.41%
1994	LDGV	1902	1.6	1130	59.41%	713	63.10%	361	18.98%	151	41.83%	195	10.25%	85	43.59%	94	4.94%	33	35.11%	122	6.41%	44	36.07%
	LDGT1	1543	1.5	975	63.19%	665	68.21%	291	18.86%	145	49.83%	130	8.43%	61	46.92%	64	4.15%	25	39.06%	83	5.38%	26	31.33%
	LDGT2	1271	1.8	684	53.82%	402	58.77%	275	21.64%	123	44.73%	139	10.94%	60	43.17%	79	6.22%	37	46.84%	94	7.40%	32	34.04%
1994 Total		4716	1.6	2789	59.14%	1780	63.82%	927	19.66%	419	45.20%	464	9.84%	206	44.40%	237	5.03%	95	40.08%	299	6.34%	102	34.11%
1995	LDGV	2639	1.6	1616	61.24%	1054	65.22%	479	18.15%	216	45.09%	223	8.45%	86	38.57%	132	5.00%	52	39.39%	189	7.16%	56	29.63%
	LDGT1	1960	1.6	1252	63.88%	803	64.14%	396	20.20%	203	51.26%	179	9.13%	93	51.96%	73	3.72%	40	54.79%	60	3.06%	30	50.00%
	LDGT2	1848	1.8	998	54.00%	561	56.21%	400	21.65%	179	44.75%	190	10.28%	83	43.68%	98	5.30%	31	31.63%	162	8.77%	60	37.04%
1995 Total		6447	1.6	3866	59.97%	2418	62.55%	1275	19.78%	598	46.90%	592	9.18%	262	44.26%	303	4.70%	123	40.59%	411	6.38%	146	35.52%
1996	LDGV	2315	1.5	1471	63.54%	1007	68.46%	427	18.44%	217	50.82%	184	7.95%	70	38.04%	112	4.84%	44	39.29%	121	5.23%	47	38.84%
	LDGT1	1618	1.3	1194	73.79%	904	75.71%	250	15.45%	141	56.40%	98	6.06%	45	45.92%	43	2.66%	24	55.81%	33	2.04%	14	42.42%
	LDGT2	818	1.5	549	67.11%	389	70.86%	151	18.46%	78	51.66%	65	7.95%	34	52.31%	28	3.42%	12	42.86%	25	3.06%	13	52.00%
1996 Total		4751	1.4	3214	67.65%	2300	71.56%	828	17.43%	436	52.66%	347	7.30%	149	42.94%	183	3.85%	80	43.72%	179	3.77%	74	41.34%
1997	LDGV	2768	1.4	1908	68.93%	1415	74.16%	433	15.64%	205	47.34%	193	6.97%	76	39.38%	102	3.68%	45	44.12%	132	4.77%	41	31.06%
	LDGT1	2880	1.4	2028	70.42%	1514	74.65%	461	16.01%	245	53.15%	202	7.01%	92	45.54%	100	3.47%	50	50.00%	89	3.09%	40	44.94%
	LDGT2	1260	1.5	818	64.92%	562	68.70%	221	17.54%	103	46.61%	103	8.17%	53	51.46%	50	3.97%	15	30.00%	68	5.40%	24	35.29%
1997 Total		6908	1.4	4754	68.82%	3491	73.43%	1115	16.14%	553	49.60%	498	7.21%	221	44.38%	252	3.65%	110	43.65%	289	4.18%	105	36.33%
1998	LDGV	2896	1.5	1901	65.64%	1386	72.91%	493	17.02%	231	46.86%	242	8.36%	117	48.35%	114	3.94%	49	42.98%	146	5.04%	53	36.30%
	LDGT1	2786	1.4	1923	69.02%	1402	72.91%	480	17.23%	261	54.38%	199	7.14%	102	51.26%	88	3.16%	44	50.00%	96	3.45%	38	39.58%
	LDGT2	1248	1.6	769	61.62%	485	63.07%	249	19.95%	133	53.41%	115	9.21%	51	44.35%	60	4.81%	28	46.67%	55	4.41%	29	52.73%
1998 Total		6930	1.5	4593	66.28%	3273	71.26%	1222	17.63%	625	51.15%	556	8.02%	270	48.56%	262	3.78%	121	46.18%	297	4.29%	120	40.40%
1999	LDGV	3562	1.4	2489	69.88%	1875	75.33%	556	15.61%	267	48.02%	252	7.07%	106	42.06%	147	4.13%	71	48.30%	118	3.31%	54	45.76%
	LDGT1	2814	1.3	2039	72.46%	1590	77.98%	428	15.21%	235	54.91%	180	6.40%	85	47.22%	80	2.84%	38	47.50%	87	3.09%	33	37.93%
	LDGT2	2080	1.6	1292	62.12%	845	65.40%	396	19.04%	197	49.75%	182	8.75%	77	42.31%	93	4.47%	38	40.86%	117	5.63%	45	38.46%
1999 Total		8456	1.4	5820	68.83%	4310	74.05%	1380	16.32%	699	50.65%	614	7.26%	268	43.65%	320	3.78%	147	45.94%	322	3.81%	132	40.99%
	LDGV	3386	1.4	2315	68.37%	1694	73.17%	557	16.45%	273	49.01%	268	7.91%	126	47.01%	133	3.93%	69	51.88%	113	3.34%	51	45.13%

Vehicle			Avg Retest #	Retest #1				Retest #2				Retest #3				Retest #4				Retest >= #5			
Year	Type	Total		Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt %	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%
2000	LDGT1	2439	1.4	1764	72.32%	1383	78.40%	366	15.01%	198	54.10%	156	6.40%	77	49.36%	72	2.95%	37	51.39%	81	3.32%	30	37.04%
	LDGT2	1186	1.5	802	67.62%	580	72.32%	200	16.86%	102	51.00%	84	7.08%	37	44.05%	46	3.88%	17	36.96%	54	4.55%	24	44.44%
2000 Total		7011	1.4	4881	69.62%	3657	74.92%	1123	16.02%	573	51.02%	508	7.25%	240	47.24%	251	3.58%	123	49.00%	248	3.54%	105	42.34%
2001	LDGV	2772	1.3	2102	75.83%	1677	79.78%	374	13.49%	201	53.74%	154	5.56%	69	44.81%	73	2.63%	35	47.95%	69	2.49%	28	40.58%
	LDGT1	2043	1.2	1605	78.56%	1379	85.92%	212	10.38%	109	51.42%	96	4.70%	39	40.63%	60	2.94%	27	45.00%	70	3.43%	23	32.86%
	LDGT2	1096	1.3	863	78.74%	721	83.55%	126	11.50%	67	53.17%	52	4.74%	28	53.85%	24	2.19%	10	41.67%	31	2.83%	14	45.16%
2001 Total		5911	1.3	4570	77.31%	3777	82.65%	712	12.05%	377	52.95%	302	5.11%	136	45.03%	157	2.66%	72	45.86%	170	2.88%	65	38.24%
2002	LDGV	2544	1.3	1958	76.97%	1600	81.72%	314	12.34%	181	57.64%	117	4.60%	48	41.03%	63	2.48%	28	44.44%	92	3.62%	32	34.78%
	LDGT1	1681	1.3	1273	75.73%	1063	83.50%	209	12.43%	102	48.80%	96	5.71%	38	39.58%	53	3.15%	29	54.72%	50	2.97%	22	44.00%
	LDGT2	703	1.3	554	78.81%	462	83.39%	73	10.38%	35	47.95%	36	5.12%	18	50.00%	19	2.70%	6	31.58%	21	2.99%	9	42.86%
2002 Total		4928	1.3	3785	76.81%	3125	82.56%	596	12.09%	318	53.36%	249	5.05%	104	41.77%	135	2.74%	63	46.67%	163	3.31%	63	38.65%
2003	LDGV	2027	1.2	1661	81.94%	1426	85.85%	217	10.71%	125	57.60%	82	4.05%	43	52.44%	38	1.87%	19	50.00%	29	1.43%	11	37.93%
	LDGT1	1435	1.2	1246	86.83%	1140	91.49%	106	7.39%	64	60.38%	39	2.72%	23	58.97%	18	1.25%	6	33.33%	26	1.81%	11	42.31%
	LDGT2	677	1.2	567	83.75%	499	88.01%	64	9.45%	35	54.69%	25	3.69%	13	52.00%	10	1.48%	9	90.00%	11	1.62%	2	18.18%
2003 Total		4139	1.2	3474	83.93%	3065	88.23%	387	9.35%	224	57.88%	146	3.53%	79	54.11%	66	1.59%	34	51.52%	66	1.59%	24	36.36%
2004	LDGV	1507	1.2	1257	83.41%	1088	86.56%	150	9.95%	84	56.00%	55	3.65%	24	43.64%	26	1.73%	12	46.15%	19	1.26%	9	47.37%
	LDGT1	1083	1.1	945	87.26%	852	90.16%	78	7.20%	46	58.97%	30	2.77%	16	53.33%	13	1.20%	5	38.46%	17	1.57%	8	47.06%
	LDGT2	582	1.1	501	86.08%	450	89.82%	52	8.93%	28	53.85%	20	3.44%	14	70.00%	6	1.03%	4	66.67%	3	0.52%	1	33.33%
2004 Total		3172	1.2	2703	85.21%	2390	88.42%	280	8.83%	158	56.43%	105	3.31%	54	51.43%	45	1.42%	21	46.67%	39	1.23%	18	46.15%
2005	LDGV	1677	1.1	1516	90.40%	1400	92.35%	100	5.96%	62	62.00%	35	2.09%	18	51.43%	13	0.78%	6	46.15%	13	0.78%	5	38.46%
	LDGT1	980	1.1	926	94.49%	896	96.76%	32	3.27%	18	56.25%	15	1.53%	10	66.67%	4	0.41%	2	50.00%	3	0.31%	1	33.33%
	LDGT2	462	1.2	384	83.12%	337	87.76%	38	8.23%	22	57.89%	14	3.03%	7	50.00%	7	1.52%	1	14.29%	19	4.11%	4	21.05%
2005 Total		3119	1.1	2826	90.61%	2633	93.17%	170	5.45%	102	60.00%	64	2.05%	35	54.69%	24	0.77%	9	37.50%	35	1.12%	10	28.57%
2006	LDGV	993	1.1	859	86.51%	771	89.76%	88	8.86%	57	64.77%	30	3.02%	14	46.67%	13	1.31%	9	69.23%	3	0.30%	2	66.67%
	LDGT1	665	1.1	626	94.14%	600	95.85%	28	4.21%	17	60.71%	9	1.35%	9	100.00%	1	0.15%	1	100.00%	1	0.15%	1	100.00%
	LDGT2	380	1.1	335	88.16%	304	90.75%	28	7.37%	17	60.71%	10	2.63%	7	70.00%	3	0.79%	0	0.00%	4	1.05%	3	75.00%
2006 Total		2038	1.1	1820	89.30%	1675	92.03%	144	7.07%	91	63.19%	49	2.40%	30	61.22%	17	0.83%	10	58.82%	8	0.39%	6	75.00%
2007	LDGV	837	1.1	779	93.07%	730	93.71%	43	5.14%	27	62.79%	10	1.19%	7	70.00%	3	0.36%	1	33.33%	2	0.24%	2	100.00%
	LDGT1	948	1	915	96.52%	889	97.16%	24	2.53%	18	75.00%	6	0.63%	4	66.67%	2	0.21%	1	50.00%	1	0.11%	1	100.00%
	LDGT2	385	1	369	95.84%	361	97.83%	7	1.82%	4	57.14%	3	0.78%	0	0.00%	4	1.04%	2	50.00%	2	0.52%	2	100.00%
2007 Total		2170	1.1	2063	95.07%	1980	95.98%	74	3.41%	49	66.22%	19	0.88%	11	57.89%	9	0.41%	4	44.44%	5	0.23%	5	100.00%
2008	LDGV	558	1.1	511	91.58%	476	93.15%	31	5.56%	23	74.19%	12	2.15%	7	58.33%	3	0.54%	2	66.67%	1	0.18%	1	100.00%
	LDGT1	479	1	464	96.87%	452	97.41%	12	2.51%	8	66.67%	3	0.63%	3	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	351	1.1	326	92.88%	310	95.09%	16	4.56%	9	56.25%	7	1.99%	4	57.14%	2	0.57%	0	0.00%	0	0.00%	0	0.00%
2008 Total		1388	1.1	1301	93.73%	1238	95.16%	59	4.25%	40	67.80%	22	1.59%	14	63.64%	5	0.36%	2	40.00%	1	0.07%	1	100.00%
2009	LDGV	506	1	478	94.47%	459	96.03%	16	3.16%	9	56.25%	7	1.38%	3	42.86%	3	0.59%	1	33.33%	2	0.40%	0	0.00%
	LDGT1	479	1	473	98.75%	467	98.73%	6	1.25%	6	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%

Vehicle			Avg Retest #	Retest #1				Retest #2				Retest #3				Retest #4				Retest >= #5			
Year	Type	Total		Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt %	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%
	LDGT2	210	1	209	99.52%	208	99.52%	1	0.48%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
2009 Total		1195	1	1160	97.07%	1134	97.76%	23	1.92%	16	69.57%	7	0.59%	3	42.86%	3	0.25%	1	33.33%	2	0.17%	0	0.00%
2010	LDGV	108	1.1	100	92.59%	93	93.00%	6	5.56%	4	66.67%	2	1.85%	2	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	95	1	92	96.84%	88	95.65%	3	3.16%	3	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	57	1	57	100.00%	57	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
2010 Total		260	1	249	95.77%	238	95.58%	9	3.46%	7	77.78%	2	0.77%	2	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
2011	LDGV	53	1	52	98.11%	51	98.08%	1	1.89%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	28	1	28	100.00%	28	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	25	1	25	100.00%	25	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
2011 Total		106	1	105	99.06%	104	99.05%	1	0.94%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
2012	LDGV	29	1	29	100.00%	29	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	8	1	8	100.00%	8	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	4	1	4	100.00%	4	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
2012 Total		41	1	41	100.00%	41	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
2013	LDGV	4	1	4	100.00%	3	75.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	1	1	1	100.00%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	2	1	2	100.00%	2	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
2013 Total		7	1	7	100.00%	6	85.71%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Overall Total		94518	1.4	66342	70.19%	50315	75.84%	14446	15.28%	7140	49.43%	6608	6.99%	2920	44.19%	3,335	3.53%	1,449	43.45%	3787	4.01%	1,431	37.79%

Summary by Vehicle Type (V1.01)

Vehicle		Avg Retest #	Retest #1				Retest #2				Retest #3				Retest #4				Retest >= #5			
Type	Total		Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt %	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%
LDGV	42695	1.4	29835	69.88%	22475	75.33%	6577	15.40%	3194	48.56%	3004	7.04%	1263	42.04	1,551	3.63%	677	43.65%	1728	4.05%	631	36.52%
LDGT1	33231	1.3	24286	73.08%	19086	78.59%	4751	14.30%	2469	51.97%	2100	6.32%	988	47.05	1,006	3.03%	465	46.22%	1088	3.27%	428	39.34%
LDGT2	18592	1.5	12221	65.73%	8754	71.63%	3118	16.77%	1477	47.37%	1504	8.09%	669	44.48	778	4.18%	307	39.46%	971	5.22%	372	38.31%
Overall Total	94518	1.4	66342	70.19%	50315	75.84%	14446	15.28%	7140	49.43%	6608	6.99%	2920	44.19	3,335	3.53%	1,449	43.45%	3787	4.01%	1,431	37.79%

Appendix H

I/M240 Fleet Characterization Summary Report

Initial Inspection Component

IM240 Fleet Initial Inspection Report (V1.01)

Vehicle		Overall Initial Exhaust Emissions				Pass Initial Test Exhaust Emissions					Initial Exhaust Emissions				
Year	Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
1982	LDGV	322	2.0304	26.8199	2.0051	250	77.64%	1.5928	19.2717	2.0125	72	22.36%	3.5499	53.0291	1.9794
	LDGT1	276	2.9842	41.2793	2.7982	191	69.20%	2.3654	30.1269	2.9332	85	30.80%	4.3745	66.3396	2.4948
	LDGT2	83	3.2526	52.2401	2.6000	55	66.27%	2.7674	33.4783	2.7499	28	33.73%	4.2057	89.0935	2.3056
1982 Total		681	2.5659	35.7783	2.3990	496	72.83%	2.0206	25.0271	2.4488	185	27.17%	4.0280	64.6031	2.2656
1983	LDGV	585	1.5600	18.0405	2.0576	471	80.51%	1.2915	12.2499	2.0608	114	19.49%	2.6695	41.9645	2.0445
	LDGT1	469	3.4386	38.7897	2.5742	351	74.84%	3.0309	31.9005	2.3947	118	25.16%	4.6514	59.2823	3.1084
	LDGT2	195	3.1327	48.3826	2.7921	127	65.13%	2.5210	36.3331	2.7800	68	34.87%	4.2752	70.8868	2.8145
1983 Total		1249	2.5110	30.5690	2.3663	949	75.98%	2.0993	22.7409	2.2805	300	24.02%	3.8130	55.3319	2.6375
1984	LDGV	784	1.5445	16.5186	1.9475	625	79.72%	1.2233	11.3127	1.9220	159	20.28%	2.8072	36.9819	2.0475
	LDGT1	628	2.6166	32.5552	2.5229	450	71.66%	1.9443	22.7245	2.5127	178	28.34%	4.3163	57.4082	2.5486
	LDGT2	234	2.6172	39.9812	3.1641	149	63.68%	1.9545	27.8007	3.0411	85	36.32%	3.7789	61.3330	3.3798
1984 Total		1646	2.1061	25.9726	2.3400	1224	74.36%	1.5774	17.5153	2.2754	422	25.64%	3.6394	50.5026	2.5272
1985	LDGV	1345	1.3133	14.8308	1.9293	1097	81.56%	1.0452	10.8288	1.8908	248	18.44%	2.4993	32.5331	2.0997
	LDGT1	1024	2.1301	26.0160	2.7433	799	78.03%	1.8184	18.5256	2.7155	225	21.97%	3.2371	52.6152	2.8416
	LDGT2	332	2.5233	33.8369	3.0485	220	66.27%	1.8361	22.2661	2.9383	112	33.73%	3.8730	56.5652	3.2650
1985 Total		2701	1.7717	21.4075	2.3755	2116	78.34%	1.4194	14.9242	2.3111	585	21.66%	3.0461	44.8580	2.6082
1986	LDGV	1469	1.1361	10.9815	1.8592	1248	84.96%	0.9214	7.9015	1.8080	221	15.04%	2.3488	28.3741	2.1486
	LDGT1	1215	1.9024	21.5800	2.5149	949	78.11%	1.5918	15.5677	2.4790	266	21.89%	3.0102	43.0300	2.6428
	LDGT2	304	2.8866	31.3719	2.8851	185	60.86%	1.8395	19.7574	2.7831	119	39.14%	4.5145	49.4282	3.0437
1986 Total		2988	1.6258	17.3657	2.2302	2382	79.72%	1.2598	11.8766	2.1510	606	20.28%	3.0644	38.9416	2.5413
1987	LDGV	2299	1.0416	10.4829	1.8416	2002	87.08%	0.8374	7.6985	1.8055	297	12.92%	2.4182	29.2515	2.0849
	LDGT1	1786	1.6749	18.5539	2.3149	1465	82.03%	1.4194	14.4221	2.2802	321	17.97%	2.8410	37.4109	2.4735
	LDGT2	530	2.0386	17.2567	2.9547	423	79.81%	1.7504	13.6801	2.8707	107	20.19%	3.1779	31.3963	3.2870
1987 Total		4615	1.4012	14.3843	2.1526	3890	84.29%	1.1559	10.8811	2.1001	725	15.71%	2.7175	33.1807	2.4343
1988	LDGV	2122	0.9927	10.5162	1.6361	1830	86.24%	0.7389	7.8397	1.5875	292	13.76%	2.5834	27.2903	1.9409
	LDGT1	1864	1.5827	15.7191	2.2151	1513	81.17%	1.3091	12.0607	2.1476	351	18.83%	2.7618	31.4888	2.5061
	LDGT2	613	1.6605	15.3557	2.7235	489	79.77%	1.4310	12.3108	2.5505	124	20.23%	2.5656	27.3636	3.4057
1988 Total		4599	1.3208	13.2700	2.0157	3832	83.32%	1.0524	10.0769	1.9315	767	16.68%	2.6622	29.2235	2.4364
1989	LDGV	3709	0.9021	10.1462	1.6326	3276	88.33%	0.7210	7.9151	1.6067	433	11.67%	2.2722	27.0261	1.8289
	LDGT1	2832	1.4618	16.2862	2.0520	2350	82.98%	1.1678	12.5270	1.9683	482	17.02%	2.8952	34.6143	2.4602
	LDGT2	996	1.8155	15.2600	2.7985	820	82.33%	1.4394	12.3621	2.6170	176	17.67%	3.5678	28.7617	3.6442
1989 Total		7537	1.2331	13.1291	1.9443	6446	85.52%	0.9753	10.1622	1.8670	1091	14.48%	2.7564	30.6585	2.4006
1990	LDGV	4572	0.8688	9.9075	1.6745	4005	87.60%	0.6995	7.7021	1.6099	567	12.40%	2.0650	25.4859	2.1308
	LDGT1	2329	1.3914	15.0493	2.1093	1911	82.05%	1.1255	11.0561	2.0268	418	17.95%	2.6073	33.3053	2.4867
	LDGT2	921	1.8412	17.3502	2.7665	734	79.70%	1.4662	13.5707	2.6939	187	20.30%	3.3131	32.1855	3.0515
1990 Total		7822	1.1389	12.3148	1.9326	6650	85.02%	0.9065	9.3137	1.8494	1172	14.98%	2.4576	29.3437	2.4047
1991	LDGV	7083	0.7472	8.8873	1.5192	6187	87.35%	0.5843	6.7184	1.4493	896	12.65%	1.8719	23.8636	2.0014
	LDGT1	4200	1.1362	13.0723	1.8740	3626	86.33%	0.9444	10.6242	1.7772	574	13.67%	2.3478	28.5368	2.4855
	LDGT2	1108	1.5515	16.8460	2.5669	886	79.96%	1.2771	14.3664	2.4293	222	20.04%	2.6467	26.7422	3.1160
1991 Total		12391	0.9510	11.0175	1.7331	10699	86.34%	0.7637	8.6755	1.6416	1692	13.66%	2.1350	25.8266	2.3119
1992	LDGV	6889	0.7155	8.5535	1.4690	6014	87.30%	0.5660	6.2637	1.4239	875	12.70%	1.7426	24.2920	1.7790

Vehicle		Overall Initial Exhaust Emissions				Pass Initial Test Exhaust Emissions					Initial Exhaust Emissions				
Year	Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
	LDGT1	3415	1.0852	12.2065	1.8468	2917	85.42%	0.9066	9.9143	1.7424	498	14.58%	2.1316	25.6332	2.4581
	LDGT2	1451	1.7092	16.4057	2.5928	1154	79.53%	1.3825	13.9266	2.4817	297	20.47%	2.9786	26.0385	3.0246
1992 Total		11755	0.9456	10.5840	1.7175	10085	85.79%	0.7580	8.1964	1.6371	1670	14.21%	2.0784	25.0025	2.2030
1993	LDGV	9836	0.6423	7.3512	1.5021	8772	89.18%	0.5402	5.7477	1.4365	1064	10.82%	1.4847	20.5706	2.0427
	LDGT1	6445	1.0702	11.2968	2.0711	5724	88.81%	0.8991	9.5017	1.9691	721	11.19%	2.4285	25.5482	2.8805
	LDGT2	2175	1.6419	16.3655	2.5720	1745	80.23%	1.3808	13.9232	2.4369	430	19.77%	2.7017	26.2767	3.1200
1993 Total		18456	0.9095	9.7914	1.8269	16241	88.00%	0.7570	7.9492	1.7317	2215	12.00%	2.0281	23.2986	2.5246
1994	LDGV	10463	0.5439	6.5066	1.2143	9424	90.07%	0.4218	5.1013	1.1579	1039	9.93%	1.6514	19.2530	1.7259
	LDGT1	7010	0.8796	9.9253	1.8273	6080	86.73%	0.7220	8.0847	1.7072	930	13.27%	1.9101	21.9584	2.6126
	LDGT2	3129	1.2343	13.1980	2.2148	2469	78.91%	0.9313	10.3936	2.0167	660	21.09%	2.3678	23.6890	2.9561
1994 Total		20602	0.7630	8.6861	1.5749	17973	87.24%	0.5933	6.8376	1.4617	2629	12.76%	1.9228	21.3236	2.3484
1995	LDGV	16160	0.4894	5.8240	1.0596	14679	90.84%	0.3978	4.6952	1.0040	1481	9.16%	1.3976	17.0113	1.6110
	LDGT1	9289	0.8170	9.4019	1.8207	8104	87.24%	0.6554	7.6672	1.6817	1185	12.76%	1.9216	21.2653	2.7711
	LDGT2	4820	1.1494	12.5941	2.2074	3895	80.81%	0.8893	10.2936	2.0189	925	19.19%	2.2447	22.2810	3.0009
1995 Total		30269	0.6950	8.0000	1.4760	26678	88.14%	0.5478	6.4154	1.3581	3591	11.86%	1.7887	19.7725	2.3519
1996	LDGV	14662	0.3790	4.8076	0.8830	13261	90.44%	0.3099	3.8154	0.8167	1401	9.56%	1.0334	14.1985	1.5099
	LDGT1	8916	0.4640	6.2057	1.4902	7779	87.25%	0.3888	5.1038	1.3747	1137	12.75%	0.9785	13.7443	2.2809
	LDGT2	3665	0.6328	7.4661	1.4957	3133	85.48%	0.5059	6.1389	1.3456	532	14.52%	1.3801	15.2819	2.3799
1996 Total		27243	0.4409	5.6228	1.1641	24173	88.73%	0.3607	4.5312	1.0648	3070	11.27%	1.0731	14.2180	1.9462
1997	LDGV	21663	0.3432	4.5359	0.7931	19872	91.73%	0.2965	3.7908	0.7461	1791	8.27%	0.8612	12.8033	1.3143
	LDGT1	15383	0.4190	5.9900	1.3479	13424	87.27%	0.3501	4.9693	1.2354	1959	12.73%	0.8914	12.9846	2.1189
	LDGT2	5745	0.5014	6.8006	1.4537	4984	86.75%	0.4025	5.5575	1.3049	761	13.25%	1.1491	14.9421	2.4284
1997 Total		42791	0.3917	5.3627	1.0812	38280	89.46%	0.3291	4.4341	0.9905	4511	10.54%	0.9229	13.2428	1.8517
1998	LDGV	20594	0.2852	4.2933	0.6832	18744	91.02%	0.2310	3.4164	0.6291	1850	8.98%	0.8351	13.1787	1.2317
	LDGT1	15362	0.3823	5.4525	1.1937	13501	87.89%	0.3173	4.4931	1.0798	1861	12.11%	0.8542	12.4125	2.0196
	LDGT2	5433	0.4563	5.8997	1.3497	4701	86.53%	0.3301	4.6358	1.1762	732	13.47%	1.2673	14.0161	2.4642
1998 Total		41389	0.3437	4.9344	0.9602	36946	89.27%	0.2751	3.9650	0.8634	4443	10.73%	0.9143	12.9958	1.7648
1999	LDGV	28297	0.2401	3.5780	0.6306	25915	91.58%	0.1993	2.9740	0.5725	2382	8.42%	0.6833	10.1493	1.2620
	LDGT1	20151	0.2606	4.0990	0.8633	18157	90.10%	0.2252	3.5375	0.7714	1994	9.90%	0.5832	9.2112	1.6995
	LDGT2	9748	0.3437	4.4730	1.0364	8535	87.56%	0.2558	3.2697	0.8723	1213	12.44%	0.9622	12.9393	2.1916
1999 Total		58196	0.2646	3.9083	0.7791	52607	90.40%	0.2174	3.2165	0.6898	5589	9.60%	0.7081	10.4201	1.6199
2000	LDGV	27483	0.1861	3.1015	0.5263	25254	91.89%	0.1507	2.5214	0.4554	2229	8.11%	0.5869	9.6743	1.3306
	LDGT1	18887	0.2388	3.6080	0.7692	17156	90.83%	0.2097	3.0554	0.6928	1731	9.17%	0.5273	9.0851	1.5270
	LDGT2	7145	0.2681	3.8936	0.8167	6378	89.27%	0.2099	3.0229	0.7108	767	10.73%	0.7517	11.1347	1.6978
2000 Total		53515	0.2156	3.3861	0.6508	48788	91.17%	0.1792	2.7747	0.5722	4727	8.83%	0.5918	9.6955	1.4621
2001	LDGV	33285	0.1316	2.4566	0.3556	31260	93.92%	0.1027	2.0807	0.3082	2025	6.08%	0.5774	8.2594	1.0867
	LDGT1	22755	0.1327	2.9292	0.4665	21170	93.03%	0.1166	2.5456	0.4221	1585	6.97%	0.3482	8.0527	1.0585
	LDGT2	9568	0.2353	3.3363	0.6660	8724	91.18%	0.1996	2.7927	0.5980	844	8.82%	0.6042	8.9546	1.3686
2001 Total		65608	0.1471	2.7488	0.4393	61154	93.21%	0.1213	2.3432	0.3890	4454	6.79%	0.5009	8.3176	1.1301
2002	LDGV	28060	0.1150	2.7476	0.3114	26159	93.23%	0.0894	2.4238	0.2656	1901	6.77%	0.4666	7.2033	0.9426
	LDGT1	19712	0.1220	3.5014	0.4066	18450	93.60%	0.0990	2.9604	0.3608	1262	6.40%	0.4581	11.4116	1.0766

Vehicle		Overall Initial Exhaust Emissions				Pass Initial Test Exhaust Emissions					Initial Exhaust Emissions				
Year	Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
	LDGT2	6350	0.1850	2.7755	0.6548	5815	91.57%	0.1651	2.3529	0.6028	535	8.43%	0.4007	7.3684	1.2203
2002 Total		54122	0.1257	3.0254	0.3864	50424	93.17%	0.1016	2.6119	0.3393	3698	6.83%	0.4541	8.6634	1.0285
2003	LDGV	33501	0.0731	1.5456	0.2370	31873	95.14%	0.0582	1.3510	0.2087	1628	4.86%	0.3645	5.3560	0.7913
	LDGT1	24446	0.0846	1.8987	0.3024	23201	94.91%	0.0745	1.6209	0.2806	1245	5.09%	0.2746	7.0757	0.7085
	LDGT2	9435	0.1477	2.1929	0.4183	8874	94.05%	0.1244	1.7693	0.3850	561	5.95%	0.5169	8.8931	0.9446
2003 Total		67382	0.0877	1.7644	0.2861	63948	94.90%	0.0733	1.5070	0.2593	3434	5.10%	0.3568	6.5573	0.7863
2004	LDGV	22513	0.0679	1.5057	0.1795	21289	94.56%	0.0521	1.2646	0.1512	1224	5.44%	0.3436	5.6983	0.6710
	LDGT1	18145	0.0674	1.6620	0.2020	17216	94.88%	0.0582	1.4341	0.1790	929	5.12%	0.2373	5.8862	0.6298
	LDGT2	8114	0.0975	1.7710	0.2177	7617	93.87%	0.0759	1.3965	0.1872	497	6.13%	0.4282	7.5114	0.6846
2004 Total		48772	0.0726	1.6080	0.1942	46122	94.57%	0.0583	1.3497	0.1675	2650	5.43%	0.3222	6.1042	0.6591
2005	LDGV	33197	0.0452	1.0961	0.1420	31705	95.51%	0.0368	0.9508	0.1227	1492	4.49%	0.2240	4.1845	0.5521
	LDGT1	28213	0.0503	1.0730	0.1217	27285	96.71%	0.0471	1.0048	0.1123	928	3.29%	0.1459	3.0808	0.3976
	LDGT2	9515	0.0893	1.3958	0.1768	9141	96.07%	0.0761	1.2375	0.1563	374	3.93%	0.4099	5.2655	0.6786
2005 Total		70925	0.0531	1.1272	0.1386	68131	96.06%	0.0462	1.0109	0.1231	2794	3.94%	0.2229	3.9626	0.5177
2006	LDGV	23547	0.0464	1.2777	0.1300	22694	96.38%	0.0372	1.1203	0.1013	853	3.62%	0.2930	5.4671	0.8949
	LDGT1	17009	0.0398	1.1235	0.1203	16381	96.31%	0.0377	1.0790	0.1081	628	3.69%	0.0945	2.2835	0.4395
	LDGT2	7865	0.0652	1.0359	0.1348	7534	95.79%	0.0574	0.9259	0.1097	331	4.21%	0.2446	3.5392	0.7072
2006 Total		48421	0.0472	1.1843	0.1274	46609	96.26%	0.0406	1.0743	0.1050	1812	3.74%	0.2154	4.0116	0.7028
2007	LDGV	32660	0.0335	0.9693	0.1026	31893	97.65%	0.0306	0.9238	0.0887	767	2.35%	0.1564	2.8600	0.6780
	LDGT1	26703	0.0308	0.9589	0.0962	25790	96.58%	0.0295	0.9089	0.0920	913	3.42%	0.0681	2.3719	0.2151
	LDGT2	10855	0.0472	0.7640	0.0854	10486	96.60%	0.0439	0.7108	0.0803	369	3.40%	0.1396	2.2766	0.2308
2007 Total		70218	0.0346	0.9336	0.0975	68169	97.08%	0.0322	0.8854	0.0887	2049	2.92%	0.1140	2.5374	0.3912
2008	LDGV	16808	0.0383	1.0860	0.1099	16298	96.97%	0.0319	1.0016	0.0842	510	3.03%	0.2439	3.7854	0.9293
	LDGT1	12872	0.0291	0.9361	0.0973	12409	96.40%	0.0288	0.9179	0.0892	463	3.60%	0.0367	1.4250	0.3135
	LDGT2	6716	0.0444	1.0128	0.0810	6393	95.19%	0.0380	0.8778	0.0760	323	4.81%	0.1713	3.6848	0.1794
2008 Total		36396	0.0362	1.0195	0.1001	35100	96.44%	0.0319	0.9494	0.0845	1296	3.56%	0.1518	2.9171	0.5224
2009	LDGV	27832	0.0307	0.9754	0.0913	27360	98.30%	0.0286	0.9499	0.0807	472	1.70%	0.1510	2.4541	0.7047
	LDGT1	16969	0.0261	0.9074	0.0832	16496	97.21%	0.0259	0.8971	0.0800	473	2.79%	0.0325	1.2670	0.1947
	LDGT2	7291	0.0321	0.6565	0.0645	7082	97.13%	0.0320	0.6533	0.0644	209	2.87%	0.0370	0.7666	0.0662
2009 Total		52092	0.0294	0.9086	0.0849	50938	97.78%	0.0282	0.8915	0.0782	1154	2.22%	0.0818	1.6619	0.3800
2010	LDGV	6223	0.0290	0.9918	0.0824	6124	98.41%	0.0264	0.9537	0.0735	99	1.59%	0.1892	3.3520	0.6318
	LDGT1	4455	0.0251	0.8327	0.0723	4364	97.96%	0.0243	0.7949	0.0720	91	2.04%	0.0637	2.6432	0.0842
	LDGT2	2171	0.0346	0.7438	0.0576	2114	97.37%	0.0342	0.7232	0.0579	57	2.63%	0.0505	1.5079	0.0470
2010 Total		12849	0.0286	0.8947	0.0747	12602	98.08%	0.0270	0.8600	0.0704	247	1.92%	0.1109	2.6653	0.2951
2011	LDGV	3251	0.0281	1.0022	0.0713	3199	98.40%	0.0270	0.9914	0.0673	52	1.60%	0.0965	1.6656	0.3149
	LDGT1	1496	0.0274	0.9824	0.0590	1468	98.13%	0.0271	0.9464	0.0591	28	1.87%	0.0418	2.8697	0.0511
	LDGT2	842	0.0340	0.6453	0.0586	817	97.03%	0.0341	0.6437	0.0513	25	2.97%	0.0299	0.6992	0.2979
2011 Total		5589	0.0288	0.9431	0.0661	5484	98.12%	0.0281	0.9276	0.0628	105	1.88%	0.0661	1.7566	0.2405
2012	LDGV	2439	0.0249	1.0339	0.0595	2410	98.81%	0.0245	1.0042	0.0582	29	1.19%	0.0624	3.4983	0.1701
	LDGT1	841	0.0257	0.8965	0.0568	833	99.05%	0.0257	0.8984	0.0569	8	0.95%	0.0297	0.6991	0.0414
	LDGT2	503	0.0297	0.5570	0.0493	499	99.20%	0.0295	0.5548	0.0490	4	0.80%	0.0591	0.8318	0.0896

Vehicle		Overall Initial Exhaust Emissions				Pass Initial Test Exhaust Emissions					Initial Exhaust Emissions				
Year	Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
2012 Total		3783	0.0257	0.9399	0.0576	3742	98.92%	0.0254	0.9207	0.0567	41	1.08%	0.0557	2.6920	0.1372
2013	LDGV	653	0.0214	0.7544	0.0584	650	99.54%	0.0215	0.7546	0.0576	3	0.46%	0.0097	0.7149	0.2299
	LDGT1	369	0.0276	0.8047	0.0468	368	99.73%	0.0276	0.8049	0.0468	1	0.27%	0.0240	0.7613	0.0420
	LDGT2	237	0.0317	0.5488	0.0537	235	99.16%	0.0319	0.5483	0.0539	2	0.84%	0.0166	0.5989	0.0408
2013 Total		1259	0.0252	0.7304	0.0541	1253	99.52%	0.0252	0.7307	0.0537	6	0.48%	0.0144	0.6840	0.1355
2014	LDGV	21	0.0324	0.8527	0.0579	21	100.00%	0.0324	0.8527	0.0579	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	18	0.0190	0.5729	0.0484	18	100.00%	0.0190	0.5729	0.0484	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	13	0.0259	0.4596	0.0517	13	100.00%	0.0259	0.4596	0.0517	0	0.00%	0.0000	0.0000	0.0000
2014 Total		52	0.0261	0.6576	0.0531	52	100.00%	0.0261	0.6576	0.0531	0	0.00%	0.0000	0.0000	0.0000
Grand Total		887913	0.2624	3.6557	0.5991	824183	92.82%	0.2028	2.8691	0.5260	63730	7.18%	1.0334	13.8287	1.5436

Records 1 - 99 (All Records)

Summary by Vehicle Type (V1.01)

Vehicle	Overall Initial Exhaust Emissions				Pass Initial Test Exhaust Emissions					Pass or Waived Retest Initial Exhaust Emissions				
Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
LDGV	444327	0.2162	3.1466	0.4976	415861	93.59%	0.1689	2.5033	0.4441	28466	6.41%	0.9066	12.5455	1.2789
LDGT1	315484	0.2849	4.0437	0.6683	291896	92.52%	0.2246	3.2031	0.5892	23588	7.48%	1.0307	14.4453	1.6467
LDGT2	128102	0.3675	4.4660	0.7804	116426	90.89%	0.2691	3.3382	0.6601	11676	9.11%	1.3480	15.7117	1.9808
Grand Total	887913	0.2624	3.6557	0.5991	824183	92.82%	0.2028	2.8691	0.5260	63730	7.18%	1.0334	13.8287	1.5436

Appendix I

I/M240 Fleet Characterization Summary Report

Final Inspection Component

IM240 Fleet Final Inspection Report (V1.01)

Vehicle		Overall Final Exhaust Emissions				Pass Retest Exhaust Emissions					Waived Exhaust Emissions				
Year	Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
1982	LDGV	322	1.5929	19.2915	1.9790	71	22.05%	1.5949	18.6454	1.8835	1	0.31%	1.4872	70.1060	0.3822
	LDGT1	276	2.3428	30.1685	2.8160	85	30.80%	2.2920	30.2620	2.5528	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	83	2.6969	34.8633	2.6398	27	32.53%	2.5829	33.8769	2.5087	1	1.20%	1.8933	137.6666	0.1249
1982 Total		681	2.0314	25.5977	2.3988	183	26.87%	2.0644	26.2883	2.2866	2	0.29%	1.6903	103.8863	0.2536
1983	LDGV	585	1.3141	13.5183	2.0138	110	18.80%	1.2695	14.7202	1.8542	4	0.68%	5.2082	129.8103	0.8765
	LDGT1	469	2.8949	30.3853	2.4995	118	25.16%	2.4903	25.8784	2.8112	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	195	2.4232	35.1791	2.7140	68	34.87%	2.2405	33.0239	2.5906	0	0.00%	0.0000	0.0000	0.0000
1983 Total		1249	2.0808	23.2337	2.3055	296	23.70%	1.9793	23.3733	2.4049	4	0.32%	5.2082	129.8103	0.8765
1984	LDGV	784	1.2900	12.3577	1.9557	153	19.52%	1.4651	13.9947	2.1018	6	0.77%	3.7787	79.4658	1.7437
	LDGT1	628	2.0132	23.4289	2.5356	175	27.87%	2.1556	23.8775	2.6274	3	0.48%	4.0328	102.9312	0.6167
	LDGT2	234	1.9026	26.6166	3.0638	80	34.19%	1.7552	23.9844	2.9298	5	2.14%	2.7167	33.4450	5.8843
1984 Total		1646	1.6530	18.6088	2.3345	408	24.79%	1.8182	20.1924	2.4896	14	0.85%	3.4539	68.0581	2.9810
1985	LDGV	1345	1.0682	10.7009	1.8958	246	18.29%	1.0867	9.7424	1.9218	2	0.15%	11.4319	58.4343	1.4056
	LDGT1	1024	1.8395	19.1224	2.7213	223	21.78%	1.8856	20.8070	2.7494	2	0.20%	5.1143	69.7420	1.8872
	LDGT2	332	1.8667	23.3347	2.9654	110	33.13%	1.9138	24.0695	3.0628	2	0.60%	2.6479	100.4642	0.5899
1985 Total		2701	1.4588	15.4466	2.3402	579	21.44%	1.5515	16.7258	2.4573	6	0.22%	6.3980	76.2135	1.2942
1986	LDGV	1469	0.9589	8.2051	1.8142	218	14.84%	1.0681	8.8421	1.8682	3	0.20%	8.6150	88.1963	0.4904
	LDGT1	1215	1.6290	16.3148	2.5265	261	21.48%	1.7419	17.6676	2.7032	5	0.41%	2.7908	87.4945	2.3264
	LDGT2	304	1.8797	19.9540	2.8524	117	38.49%	1.9002	19.3830	2.9546	2	0.66%	4.4072	71.5457	3.2800
1986 Total		2988	1.3250	12.6980	2.2095	596	19.95%	1.5265	14.7762	2.4471	10	0.33%	4.8613	84.5153	1.9663
1987	LDGV	2299	0.8731	8.0284	1.7979	290	12.61%	1.0380	9.1284	1.7293	7	0.30%	4.2306	56.8167	2.4623
	LDGT1	1786	1.4239	14.3136	2.3090	317	17.75%	1.4218	13.4473	2.4323	4	0.22%	3.2139	43.1956	3.1033
	LDGT2	530	1.7263	13.8308	2.8734	104	19.62%	1.6210	12.8903	2.8873	3	0.57%	1.9695	67.6869	2.7699
1987 Total		4615	1.1842	11.1271	2.1192	711	15.41%	1.2944	11.6043	2.2121	14	0.30%	3.4556	55.2543	2.7113
1988	LDGV	2122	0.7765	8.0514	1.5978	286	13.48%	0.9426	8.6821	1.6543	6	0.28%	4.3487	42.5312	2.0207
	LDGT1	1864	1.3245	12.4137	2.1368	343	18.40%	1.3134	12.5381	2.0931	8	0.43%	4.6977	73.8416	1.9632
	LDGT2	613	1.4440	12.2660	2.5846	124	20.23%	1.4954	12.0895	2.7189	0	0.00%	0.0000	0.0000	0.0000
1988 Total		4599	1.0876	10.3812	1.9478	753	16.37%	1.2025	10.9996	2.0295	14	0.30%	4.5482	60.4229	1.9879
1989	LDGV	3709	0.7446	8.0991	1.6057	429	11.57%	0.8945	8.4649	1.6096	4	0.11%	4.0070	119.5603	0.3623
	LDGT1	2832	1.1929	12.6344	1.9979	476	16.81%	1.2803	12.1659	2.1378	6	0.21%	4.1022	91.8783	2.4764
	LDGT2	996	1.4756	12.2823	2.6815	172	17.27%	1.4481	11.8668	2.9105	4	0.40%	10.0691	13.7902	6.0585
1989 Total		7537	1.0097	10.3560	1.8952	1077	14.29%	1.1534	10.6439	2.0508	14	0.19%	5.7798	77.4765	2.8958
1990	LDGV	4572	0.7196	7.8123	1.6247	559	12.23%	0.8478	8.1947	1.7078	8	0.17%	1.8517	36.2941	3.1853
	LDGT1	2329	1.1486	11.2288	2.0501	410	17.60%	1.2190	11.5833	2.1554	8	0.34%	3.0544	34.2894	2.2180
	LDGT2	921	1.4636	13.3686	2.6643	187	20.30%	1.4531	12.5753	2.5483	0	0.00%	0.0000	0.0000	0.0000
1990 Total		7822	0.9349	9.4838	1.8738	1156	14.78%	1.0774	10.1052	2.0025	16	0.20%	2.4531	35.2918	2.7016
1991	LDGV	7083	0.6080	6.8451	1.4633	880	12.42%	0.7260	7.0719	1.5619	16	0.23%	3.2728	43.3599	1.4374
	LDGT1	4200	0.9622	10.6027	1.8055	569	13.55%	1.0507	10.2187	1.9733	5	0.12%	3.8189	38.6814	3.2075
	LDGT2	1108	1.2789	13.7088	2.4404	220	19.86%	1.2781	11.0237	2.4579	2	0.18%	2.1792	17.7715	5.4151

Vehicle		Overall Final Exhaust Emissions				Pass Retest Exhaust Emissions					Waived Exhaust Emissions				
Year	Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
1991 Total		12391	0.7881	8.7325	1.6667	1669	13.47%	0.9095	8.6656	1.8203	23	0.19%	3.2964	40.1177	2.1681
1992	LDGV	6889	0.5841	6.3579	1.4359	859	12.47%	0.6718	6.4921	1.5142	16	0.23%	2.6778	34.5763	1.7290
	LDGT1	3415	0.9282	10.0223	1.7844	496	14.52%	1.0468	10.5171	2.0290	2	0.06%	3.0923	44.7432	2.4201
	LDGT2	1451	1.3839	13.7000	2.4403	292	20.12%	1.3266	12.2555	2.2888	5	0.34%	5.0624	45.7660	1.7231
1992 Total		11755	0.7828	8.3288	1.6611	1647	14.01%	0.9008	8.7261	1.8066	23	0.20%	3.2322	37.8929	1.7878
1993	LDGV	9836	0.5602	5.8511	1.4550	1045	10.62%	0.6473	6.2916	1.5925	19	0.19%	5.0225	29.3605	2.4082
	LDGT1	6445	0.9170	9.5500	1.9728	716	11.11%	1.0058	9.8336	1.9877	5	0.08%	8.6884	24.2233	4.0529
	LDGT2	2175	1.3750	13.5149	2.4136	423	19.45%	1.3287	11.6620	2.2930	7	0.32%	2.7424	23.6748	3.8812
1993 Total		18456	0.7808	8.0460	1.7488	2184	11.83%	0.8968	8.4930	1.8577	31	0.17%	5.0989	27.2481	3.0061
1994	LDGV	10463	0.4394	5.1925	1.1707	1026	9.81%	0.5307	5.6308	1.2711	13	0.12%	6.0106	36.6777	2.4826
	LDGT1	7010	0.7349	8.1749	1.7294	922	13.15%	0.8172	8.7094	1.8554	8	0.11%	1.1151	15.1287	4.0712
	LDGT2	3129	0.9344	10.2424	2.0073	654	20.90%	0.9394	9.6084	1.9460	6	0.19%	1.6917	17.1127	4.8075
1994 Total		20602	0.6152	6.9742	1.4879	2602	12.63%	0.7350	7.7214	1.6478	27	0.13%	3.6003	25.9450	3.4699
1995	LDGV	16160	0.4075	4.7464	1.0226	1464	9.06%	0.4858	5.2029	1.1897	17	0.11%	2.0938	9.6005	2.7062
	LDGT1	9289	0.6721	7.7510	1.7046	1169	12.58%	0.7647	8.1381	1.8348	16	0.17%	2.3609	21.9319	3.7853
	LDGT2	4820	0.9014	10.1564	2.0015	914	18.96%	0.9299	9.3532	1.9219	11	0.23%	2.8143	28.3368	2.4468
1995 Total		30269	0.5674	6.5299	1.3878	3547	11.72%	0.6922	7.2397	1.5910	44	0.15%	2.3710	18.7687	3.0337
1996	LDGV	14662	0.3184	3.9081	0.8298	1385	9.45%	0.3876	4.4355	0.9446	16	0.11%	1.3728	35.0860	1.7041
	LDGT1	8916	0.3950	5.1959	1.3992	1128	12.65%	0.4261	5.6382	1.5612	9	0.10%	1.8913	29.3733	2.2766
	LDGT2	3665	0.5105	6.1499	1.3609	526	14.35%	0.5249	6.0953	1.4179	6	0.16%	1.6703	16.6951	4.3673
1996 Total		27243	0.3693	4.6312	1.0876	3039	11.16%	0.4257	5.1692	1.2554	31	0.11%	1.5809	29.8679	2.3858
1997	LDGV	21663	0.3033	3.8559	0.7588	1782	8.23%	0.3570	4.4385	0.8896	9	0.04%	4.6319	32.0886	2.7377
	LDGT1	15383	0.3583	5.0590	1.2534	1941	12.62%	0.4026	5.5157	1.3618	18	0.12%	1.7337	22.7076	3.0179
	LDGT2	5745	0.4108	5.6128	1.3222	757	13.18%	0.4594	5.9100	1.4245	4	0.07%	1.6713	18.3125	3.4475
1997 Total		42791	0.3375	4.5243	1.0122	4480	10.47%	0.3940	5.1539	1.1846	31	0.07%	2.5671	24.8640	2.9920
1998	LDGV	20594	0.2360	3.4590	0.6360	1836	8.92%	0.2827	3.8685	0.6957	14	0.07%	0.7963	6.8759	2.1056
	LDGT1	15362	0.3236	4.5471	1.1044	1847	12.02%	0.3669	4.8434	1.2682	14	0.09%	0.7352	17.5405	3.1437
	LDGT2	5433	0.3416	4.7823	1.1993	726	13.36%	0.4082	5.6573	1.3319	6	0.11%	1.2997	13.6366	3.2888
1998 Total		41389	0.2824	4.0366	0.8838	4409	10.65%	0.3386	4.5714	1.0403	34	0.08%	0.8600	12.4602	2.7418
1999	LDGV	28297	0.2029	3.0084	0.5803	2373	8.39%	0.2405	3.3658	0.6563	9	0.03%	0.6872	7.9555	2.7257
	LDGT1	20151	0.2310	3.5635	0.7910	1981	9.83%	0.2808	3.7906	0.9570	13	0.06%	0.6604	5.2547	2.8559
	LDGT2	9748	0.2675	3.3886	0.9033	1202	12.33%	0.3446	4.1550	1.1021	11	0.11%	0.8481	11.8665	3.2631
1999 Total		58196	0.2235	3.2643	0.7073	5556	9.55%	0.2774	3.6880	0.8600	33	0.06%	0.7303	8.1952	2.9561
2000	LDGV	27483	0.1558	2.5853	0.4663	2213	8.05%	0.2104	3.2515	0.5769	16	0.06%	0.5881	11.3056	2.4908
	LDGT1	18887	0.2146	3.1159	0.7098	1725	9.13%	0.2564	3.6576	0.8732	6	0.03%	2.1938	20.4068	2.6239
	LDGT2	7145	0.2183	3.1432	0.7408	760	10.64%	0.2801	4.0305	0.9679	7	0.10%	1.1913	16.4677	3.4680
2000 Total		53515	0.1849	2.8471	0.5889	4698	8.78%	0.2386	3.5266	0.7490	29	0.05%	1.0659	14.4346	2.7543
2001	LDGV	33285	0.1067	2.1218	0.3162	2010	6.04%	0.1637	2.6822	0.4229	15	0.05%	0.8637	12.6687	2.5835
	LDGT1	22755	0.1197	2.5752	0.4314	1577	6.93%	0.1559	2.9445	0.5398	8	0.04%	1.3143	8.0757	3.4947
	LDGT2	9568	0.2055	2.8797	0.6178	840	8.78%	0.2603	3.7075	0.8135	4	0.04%	1.5355	18.8173	2.5367

Vehicle		Overall Final Exhaust Emissions				Pass Retest Exhaust Emissions					Waived Exhaust Emissions				
Year	Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
2001 Total		65608	0.1256	2.3896	0.4001	4427	6.75%	0.1792	2.9702	0.5387	27	0.04%	1.0967	12.2187	2.8465
2002	LDGV	28060	0.0927	2.4230	0.2736	1889	6.73%	0.1338	2.3702	0.3735	12	0.04%	0.7426	8.9660	2.1670
	LDGT1	19712	0.1026	2.9674	0.3728	1254	6.36%	0.1521	3.0234	0.5311	8	0.04%	0.6290	10.4077	3.3751
	LDGT2	6350	0.1711	2.4602	0.6219	530	8.35%	0.2280	3.5424	0.8112	5	0.08%	1.1601	12.5307	2.7824
2002 Total		54122	0.1055	2.6256	0.3506	3673	6.79%	0.1536	2.7623	0.4905	25	0.05%	0.7897	10.1403	2.6767
2003	LDGV	33501	0.0607	1.3820	0.2137	1624	4.85%	0.1087	1.9792	0.3076	4	0.01%	0.3453	6.1178	2.1774
	LDGT1	24446	0.0763	1.6681	0.2861	1244	5.09%	0.1101	2.5466	0.3843	1	0.00%	0.5628	4.0510	5.6066
	LDGT2	9435	0.1285	1.8399	0.3964	558	5.91%	0.1825	2.7458	0.5582	3	0.03%	2.2279	42.0126	3.8925
2003 Total		67382	0.0759	1.5499	0.2656	3426	5.08%	0.1212	2.3101	0.3763	8	0.01%	1.0785	19.3200	3.2492
2004	LDGV	22513	0.0549	1.3054	0.1568	1217	5.41%	0.0985	1.9674	0.2374	7	0.03%	1.0901	10.0561	3.1098
	LDGT1	18145	0.0602	1.4826	0.1836	927	5.11%	0.0963	2.3465	0.2672	2	0.01%	0.4149	18.7531	1.2901
	LDGT2	8114	0.0787	1.4682	0.1954	497	6.13%	0.1217	2.5671	0.3205	0	0.00%	0.0000	0.0000	0.0000
2004 Total		48772	0.0608	1.3984	0.1732	2641	5.41%	0.1021	2.2133	0.2635	9	0.02%	0.9401	11.9888	2.7054
2005	LDGV	33197	0.0383	0.9699	0.1252	1491	4.49%	0.0697	1.3718	0.1757	1	0.00%	0.3800	7.4041	2.9521
	LDGT1	28213	0.0478	1.0288	0.1149	927	3.29%	0.0693	1.7256	0.1869	1	0.00%	1.0153	9.9096	2.9633
	LDGT2	9515	0.0783	1.2771	0.1617	371	3.90%	0.1255	2.1845	0.2779	3	0.03%	0.6913	9.7718	2.2330
2005 Total		70925	0.0474	1.0345	0.1260	2789	3.93%	0.0770	1.5975	0.1930	5	0.01%	0.6938	9.3258	2.5229
2006	LDGV	23547	0.0384	1.1340	0.1038	853	3.62%	0.0705	1.5004	0.1708	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	17009	0.0383	1.0888	0.1102	628	3.69%	0.0551	1.3441	0.1663	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	7865	0.0587	0.9499	0.1135	331	4.21%	0.0890	1.4956	0.2011	0	0.00%	0.0000	0.0000	0.0000
2006 Total		48421	0.0417	1.0882	0.1076	1812	3.74%	0.0685	1.4454	0.1748	0	0.00%	0.0000	0.0000	0.0000
2007	LDGV	32660	0.0310	0.9318	0.0894	767	2.35%	0.0469	1.2605	0.1178	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	26703	0.0296	0.9236	0.0919	913	3.42%	0.0347	1.3403	0.0884	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	10855	0.0446	0.7386	0.0824	369	3.40%	0.0653	1.5299	0.1426	0	0.00%	0.0000	0.0000	0.0000
2007 Total		70218	0.0326	0.8988	0.0893	2049	2.92%	0.0448	1.3446	0.1092	0	0.00%	0.0000	0.0000	0.0000
2008	LDGV	16808	0.0327	1.0147	0.0857	509	3.03%	0.0588	1.4227	0.1266	1	0.01%	0.4929	7.8857	3.2669
	LDGT1	12872	0.0288	0.9169	0.0882	463	3.60%	0.0273	0.8902	0.0627	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	6716	0.0394	0.9686	0.0778	323	4.81%	0.0681	2.7659	0.1130	0	0.00%	0.0000	0.0000	0.0000
2008 Total		36396	0.0326	0.9716	0.0851	1295	3.56%	0.0499	1.5674	0.1004	1	0.00%	0.4929	7.8857	3.2669
2009	LDGV	27832	0.0290	0.9577	0.0809	472	1.70%	0.0495	1.4151	0.0953	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	16969	0.0258	0.9005	0.0791	473	2.79%	0.0208	1.0208	0.0488	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	7291	0.0324	0.6732	0.0649	209	2.87%	0.0450	1.3498	0.0794	0	0.00%	0.0000	0.0000	0.0000
2009 Total		52092	0.0284	0.8993	0.0781	1154	2.22%	0.0369	1.2417	0.0734	0	0.00%	0.0000	0.0000	0.0000
2010	LDGV	6223	0.0269	0.9597	0.0738	99	1.59%	0.0538	1.3340	0.0904	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	4455	0.0242	0.7951	0.0714	91	2.04%	0.0211	0.8029	0.0404	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	2171	0.0341	0.7354	0.0584	57	2.63%	0.0306	1.1891	0.0782	0	0.00%	0.0000	0.0000	0.0000
2010 Total		12849	0.0272	0.8647	0.0704	247	1.92%	0.0364	1.1049	0.0692	0	0.00%	0.0000	0.0000	0.0000
2011	LDGV	3251	0.0273	0.9957	0.0675	52	1.60%	0.0431	1.2593	0.0790	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	1496	0.0270	0.9430	0.0597	28	1.87%	0.0219	0.7645	0.0897	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	842	0.0339	0.6730	0.0517	25	2.97%	0.0262	1.6317	0.0654	0	0.00%	0.0000	0.0000	0.0000

Vehicle		Overall Final Exhaust Emissions				Pass Retest Exhaust Emissions					Waived Exhaust Emissions				
Year	Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
2011 Total		5589	0.0282	0.9330	0.0631	105	1.88%	0.0334	1.2160	0.0786	0	0.00%	0.0000	0.0000	0.0000
2012	LDGV	2439	0.0243	1.0067	0.0579	29	1.19%	0.0146	1.2118	0.0308	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	841	0.0255	0.8957	0.0567	8	0.95%	0.0114	0.6221	0.0272	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	503	0.0295	0.5554	0.0497	4	0.80%	0.0264	0.6325	0.1402	0	0.00%	0.0000	0.0000	0.0000
2012 Total		3783	0.0253	0.9220	0.0565	41	1.08%	0.0151	1.0402	0.0408	0	0.00%	0.0000	0.0000	0.0000
2013	LDGV	653	0.0214	0.7522	0.0574	3	0.46%	0.0160	0.2448	0.0146	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	369	0.0275	0.8070	0.0467	1	0.27%	0.0092	1.5796	0.0076	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	237	0.0316	0.5461	0.0537	2	0.84%	0.0052	0.2820	0.0316	0	0.00%	0.0000	0.0000	0.0000
2013 Total		1259	0.0251	0.7295	0.0536	6	0.48%	0.0113	0.4796	0.0191	0	0.00%	0.0000	0.0000	0.0000
2014	LDGV	21	0.0324	0.8527	0.0579	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	18	0.0190	0.5729	0.0484	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	13	0.0259	0.4596	0.0517	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
2014 Total		52	0.0261	0.6576	0.0531	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
Grand Total		887913	0.2200	3.0373	0.5597	63255	7.12%	0.4263	5.0288	0.9825	475	0.05%	2.4943	29.7392	2.6978

Records 1 - 99 (All Records)

Summary by Vehicle Type (V1.01)

Vehicle	Overall Final Exhaust Emissions				Pass Retest Exhaust Emissions					Waived Exhaust Emissions				
Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
LDGV	444327	0.1807	2.6111	0.4652	28240	6.36%	0.3336	3.9750	0.7619	226	0.05%	2.6848	30.6223	2.1984
LDGT1	315484	0.2438	3.3969	0.6288	23436	7.43%	0.4690	5.6343	1.1066	152	0.05%	2.2987	30.6549	2.9609
LDGT2	128102	0.2975	3.6299	0.7173	11579	9.04%	0.5655	6.3734	1.2697	97	0.08%	2.3569	26.2467	3.4488
Grand Total	887913	0.2200	3.0373	0.5597	63255	7.12%	0.4263	5.0288	0.9825	475	0.05%	2.4943	29.7392	2.6978

Appendix J

I/M240 Fleet Characterization Summary Report

Emissions Reduction Component

IM240 Fleet Emission Reduction Report (V1.01)

Vehicle		Overall Initial Exhaust Emissions				Overall Final Exhaust Emissions				Emission Reduction					
Year	Type	Total	Avg HC (gpm)	Avg CO(gpm)	Avg NOx (gpm)	Total	Avg HC (gpm)	Avg CO(gpm)	Avg NOx (gpm)	Avg HC (gpm)	% Improvement	Avg CO (gpm)	% Improvement	Avg NOx(gpm)	% Improvement
1982	LDGV	322	2.0304	26.8199	2.0051	322	1.5929	19.2915	1.9790	0.4375	21.55%	7.5285	28.07%	0.0261	1.30%
	LDGT1	276	2.9842	41.2793	2.7982	276	2.3428	30.1685	2.8160	0.6414	21.49%	11.1109	26.92%	-0.0179	-0.64%
	LDGT2	83	3.2526	52.2401	2.6000	83	2.6969	34.8633	2.6398	0.5557	17.09%	17.3768	33.26%	-0.0398	-1.53%
1982 Total		681	2.5659	35.7783	2.3990	681	2.0314	25.5977	2.3988	0.5345	20.83%	10.1807	28.45%	0.0003	0.01%
1983	LDGV	585	1.5600	18.0405	2.0576	585	1.3141	13.5183	2.0138	0.2459	15.76%	4.5222	25.07%	0.0438	2.13%
	LDGT1	469	3.4386	38.7897	2.5742	469	2.8949	30.3853	2.4995	0.5437	15.81%	8.4044	21.67%	0.0748	2.90%
	LDGT2	195	3.1327	48.3826	2.7921	195	2.4232	35.1791	2.7140	0.7095	22.65%	13.2035	27.29%	0.0781	2.80%
1983 Total		1249	2.5110	30.5690	2.3663	1249	2.0808	23.2337	2.3055	0.4301	17.13%	7.3353	24.00%	0.0608	2.57%
1984	LDGV	784	1.5445	16.5186	1.9475	784	1.2900	12.3577	1.9557	0.2545	16.48%	4.1609	25.19%	-0.0083	-0.43%
	LDGT1	628	2.6166	32.5552	2.5229	628	2.0132	23.4289	2.5356	0.6035	23.06%	9.1263	28.03%	-0.0127	-0.50%
	LDGT2	234	2.6172	39.9812	3.1641	234	1.9026	26.6166	3.0638	0.7146	27.30%	13.3647	33.43%	0.1003	3.17%
1984 Total		1646	2.1061	25.9726	2.3400	1646	1.6530	18.6088	2.3345	0.4530	21.51%	7.3638	28.35%	0.0055	0.23%
1985	LDGV	1345	1.3133	14.8308	1.9293	1345	1.0682	10.7009	1.8958	0.2451	18.66%	4.1299	27.85%	0.0336	1.74%
	LDGT1	1024	2.1301	26.0160	2.7433	1024	1.8395	19.1224	2.7213	0.2907	13.65%	6.8935	26.50%	0.0219	0.80%
	LDGT2	332	2.5233	33.8369	3.0485	332	1.8667	23.3347	2.9654	0.6565	26.02%	10.5022	31.04%	0.0831	2.73%
1985 Total		2701	1.7717	21.4075	2.3755	2701	1.4588	15.4466	2.3402	0.3129	17.66%	5.9609	27.85%	0.0353	1.48%
1986	LDGV	1469	1.1361	10.9815	1.8592	1469	0.9589	8.2051	1.8142	0.1773	15.60%	2.7764	25.28%	0.0450	2.42%
	LDGT1	1215	1.9024	21.5800	2.5149	1215	1.6290	16.3148	2.5265	0.2734	14.37%	5.2652	24.40%	-0.0117	-0.46%
	LDGT2	304	2.8866	31.3719	2.8851	304	1.8797	19.9540	2.8524	1.0069	34.88%	11.4179	36.40%	0.0327	1.13%
1986 Total		2988	1.6258	17.3657	2.2302	2988	1.3250	12.6980	2.2095	0.3007	18.50%	4.6676	26.88%	0.0207	0.93%
1987	LDGV	2299	1.0416	10.4829	1.8416	2299	0.8731	8.0284	1.7979	0.1686	16.18%	2.4544	23.41%	0.0437	2.37%
	LDGT1	1786	1.6749	18.5539	2.3149	1786	1.4239	14.3136	2.3090	0.2510	14.99%	4.2404	22.85%	0.0059	0.25%
	LDGT2	530	2.0386	17.2567	2.9547	530	1.7263	13.8308	2.8734	0.3123	15.32%	3.4260	19.85%	0.0814	2.75%
1987 Total		4615	1.4012	14.3843	2.1526	4615	1.1842	11.1271	2.1192	0.2170	15.49%	3.2572	22.64%	0.0334	1.55%
1988	LDGV	2122	0.9927	10.5162	1.6361	2122	0.7765	8.0514	1.5978	0.2162	21.77%	2.4649	23.44%	0.0384	2.35%
	LDGT1	1864	1.5827	15.7191	2.2151	1864	1.3245	12.4137	2.1368	0.2582	16.32%	3.3054	21.03%	0.0783	3.54%
	LDGT2	613	1.6605	15.3557	2.7235	613	1.4440	12.2660	2.5846	0.2165	13.04%	3.0897	20.12%	0.1389	5.10%
1988 Total		4599	1.3208	13.2700	2.0157	4599	1.0876	10.3812	1.9478	0.2333	17.66%	2.8888	21.77%	0.0680	3.37%
1989	LDGV	3709	0.9021	10.1462	1.6326	3709	0.7446	8.0991	1.6057	0.1575	17.46%	2.0471	20.18%	0.0269	1.65%
	LDGT1	2832	1.4618	16.2862	2.0520	2832	1.1929	12.6344	1.9979	0.2689	18.39%	3.6518	22.42%	0.0542	2.64%
	LDGT2	996	1.8155	15.2600	2.7985	996	1.4756	12.2823	2.6815	0.3399	18.72%	2.9777	19.51%	0.1170	4.18%
1989 Total		7537	1.2331	13.1291	1.9443	7537	1.0097	10.3560	1.8952	0.2234	18.12%	2.7730	21.12%	0.0491	2.52%
1990	LDGV	4572	0.8688	9.9075	1.6745	4572	0.7196	7.8123	1.6247	0.1492	17.17%	2.0952	21.15%	0.0499	2.98%
	LDGT1	2329	1.3914	15.0493	2.1093	2329	1.1486	11.2288	2.0501	0.2429	17.45%	3.8206	25.39%	0.0593	2.81%
	LDGT2	921	1.8412	17.3502	2.7665	921	1.4636	13.3686	2.6643	0.3776	20.51%	3.9816	22.95%	0.1022	3.69%
1990 Total		7822	1.1389	12.3148	1.9326	7822	0.9349	9.4838	1.8738	0.2040	17.91%	2.8311	22.99%	0.0588	3.04%
1991	LDGV	7083	0.7472	8.8873	1.5192	7083	0.6080	6.8451	1.4633	0.1392	18.63%	2.0422	22.98%	0.0559	3.68%
	LDGT1	4200	1.1362	13.0723	1.8740	4200	0.9622	10.6027	1.8055	0.1740	15.31%	2.4696	18.89%	0.0685	3.66%
	LDGT2	1108	1.5515	16.8460	2.5669	1108	1.2789	13.7088	2.4404	0.2726	17.57%	3.1372	18.62%	0.1265	4.93%
1991 Total		12391	0.9510	11.0175	1.7331	12391	0.7881	8.7325	1.6667	0.1629	17.13%	2.2850	20.74%	0.0665	3.84%
1992	LDGV	6889	0.7155	8.5535	1.4690	6889	0.5841	6.3579	1.4359	0.1313	18.36%	2.1956	25.67%	0.0331	2.25%
	LDGT1	3415	1.0852	12.2065	1.8468	3415	0.9282	10.0223	1.7844	0.1570	14.47%	2.1843	17.89%	0.0624	3.38%

Vehicle		Overall Initial Exhaust Emissions				Overall Final Exhaust Emissions				Emission Reduction					
Year	Type	Total	Avg HC (gpm)	Avg CO(gpm)	Avg NOx (gpm)	Total	Avg HC (gpm)	Avg CO(gpm)	Avg NOx (gpm)	Avg HC (gpm)	% Improvement	Avg CO (gpm)	% Improvement	Avg NOx(gpm)	% Improvement
	LDGT2	1451	1.7092	16.4057	2.5928	1451	1.3839	13.7000	2.4403	0.3253	19.03%	2.7057	16.49%	0.1526	5.88%
1992 Total		11755	0.9456	10.5840	1.7175	11755	0.7828	8.3288	1.6611	0.1627	17.21%	2.2553	21.31%	0.0564	3.28%
1993	LDGV	9836	0.6423	7.3512	1.5021	9836	0.5602	5.8511	1.4550	0.0821	12.79%	1.5000	20.41%	0.0471	3.14%
	LDGT1	6445	1.0702	11.2968	2.0711	6445	0.9170	9.5500	1.9728	0.1532	14.32%	1.7468	15.46%	0.0983	4.74%
	LDGT2	2175	1.6419	16.3655	2.5720	2175	1.3750	13.5149	2.4136	0.2669	16.25%	2.8507	17.42%	0.1584	6.16%
1993 Total		18456	0.9095	9.7914	1.8269	18456	0.7808	8.0460	1.7488	0.1287	14.15%	1.7454	17.83%	0.0781	4.27%
1994	LDGV	10463	0.5439	6.5066	1.2143	10463	0.4394	5.1925	1.1707	0.1045	19.21%	1.3141	20.20%	0.0437	3.59%
	LDGT1	7010	0.8796	9.9253	1.8273	7010	0.7349	8.1749	1.7294	0.1447	16.45%	1.7504	17.64%	0.0979	5.36%
	LDGT2	3129	1.2343	13.1980	2.2148	3129	0.9344	10.2424	2.0073	0.2998	24.29%	2.9556	22.39%	0.2076	9.37%
1994 Total		20602	0.7630	8.6861	1.5749	20602	0.6152	6.9742	1.4879	0.1478	19.37%	1.7119	19.71%	0.0870	5.53%
1995	LDGV	16160	0.4894	5.8240	1.0596	16160	0.4075	4.7464	1.0226	0.0819	16.73%	1.0776	18.50%	0.0370	3.49%
	LDGT1	9289	0.8170	9.4019	1.8207	9289	0.6721	7.7510	1.7046	0.1448	17.73%	1.6509	17.56%	0.1161	6.38%
	LDGT2	4820	1.1494	12.5941	2.2074	4820	0.9014	10.1564	2.0015	0.2480	21.58%	2.4376	19.36%	0.2059	9.33%
1995 Total		30269	0.6950	8.0000	1.4760	30269	0.5674	6.5299	1.3878	0.1277	18.37%	1.4701	18.38%	0.0882	5.97%
1996	LDGV	14662	0.3790	4.8076	0.8830	14662	0.3184	3.9081	0.8298	0.0606	16.00%	0.8994	18.71%	0.0532	6.02%
	LDGT1	8916	0.4640	6.2057	1.4902	8916	0.3950	5.1959	1.3992	0.0690	14.86%	1.0098	16.27%	0.0911	6.11%
	LDGT2	3665	0.6328	7.4661	1.4957	3665	0.5105	6.1499	1.3609	0.1223	19.32%	1.3161	17.63%	0.1348	9.01%
1996 Total		27243	0.4409	5.6228	1.1641	27243	0.3693	4.6312	1.0876	0.0716	16.25%	0.9916	17.64%	0.0766	6.58%
1997	LDGV	21663	0.3432	4.5359	0.7931	21663	0.3033	3.8559	0.7588	0.0399	11.63%	0.6801	14.99%	0.0343	4.33%
	LDGT1	15383	0.4190	5.9900	1.3479	15383	0.3583	5.0590	1.2534	0.0607	14.49%	0.9310	15.54%	0.0945	7.01%
	LDGT2	5745	0.5014	6.8006	1.4537	5745	0.4108	5.6128	1.3222	0.0905	18.05%	1.1878	17.47%	0.1316	9.05%
1997 Total		42791	0.3917	5.3627	1.0812	42791	0.3375	4.5243	1.0122	0.0542	13.83%	0.8385	15.63%	0.0690	6.38%
1998	LDGV	20594	0.2852	4.2933	0.6832	20594	0.2360	3.4590	0.6360	0.0493	17.28%	0.8343	19.43%	0.0472	6.91%
	LDGT1	15362	0.3823	5.4525	1.1937	15362	0.3236	4.5471	1.1044	0.0587	15.35%	0.9054	16.60%	0.0893	7.48%
	LDGT2	5433	0.4563	5.8997	1.3497	5433	0.3416	4.7823	1.1993	0.1148	25.15%	1.1174	18.94%	0.1504	11.14%
1998 Total		41389	0.3437	4.9344	0.9602	41389	0.2824	4.0366	0.8838	0.0614	17.85%	0.8978	18.20%	0.0764	7.95%
1999	LDGV	28297	0.2401	3.5780	0.6306	28297	0.2029	3.0084	0.5803	0.0371	15.46%	0.5696	15.92%	0.0503	7.98%
	LDGT1	20151	0.2606	4.0990	0.8633	20151	0.2310	3.5635	0.7910	0.0297	11.39%	0.5354	13.06%	0.0722	8.37%
	LDGT2	9748	0.3437	4.4730	1.0364	9748	0.2675	3.3886	0.9033	0.0763	22.19%	1.0844	24.24%	0.1331	12.85%
1999 Total		58196	0.2646	3.9083	0.7791	58196	0.2235	3.2643	0.7073	0.0411	15.54%	0.6440	16.48%	0.0718	9.21%
2000	LDGV	27483	0.1861	3.1015	0.5263	27483	0.1558	2.5853	0.4663	0.0303	16.29%	0.5162	16.64%	0.0600	11.40%
	LDGT1	18887	0.2388	3.6080	0.7692	18887	0.2146	3.1159	0.7098	0.0242	10.14%	0.4921	13.64%	0.0594	7.72%
	LDGT2	7145	0.2681	3.8936	0.8167	7145	0.2183	3.1432	0.7408	0.0497	18.55%	0.7504	19.27%	0.0759	9.29%
2000 Total		53515	0.2156	3.3861	0.6508	53515	0.1849	2.8471	0.5889	0.0308	14.26%	0.5390	15.92%	0.0619	9.51%
2001	LDGV	33285	0.1316	2.4566	0.3556	33285	0.1067	2.1218	0.3162	0.0249	18.89%	0.3348	13.63%	0.0394	11.08%
	LDGT1	22755	0.1327	2.9292	0.4665	22755	0.1197	2.5752	0.4314	0.0130	9.79%	0.3540	12.09%	0.0351	7.52%
	LDGT2	9568	0.2353	3.3363	0.6660	9568	0.2055	2.8797	0.6178	0.0298	12.66%	0.4565	13.68%	0.0482	7.24%
2001 Total		65608	0.1471	2.7488	0.4393	65608	0.1256	2.3896	0.4001	0.0215	14.59%	0.3592	13.07%	0.0392	8.92%
2002	LDGV	28060	0.1150	2.7476	0.3114	28060	0.0927	2.4230	0.2736	0.0223	19.39%	0.3246	11.81%	0.0378	12.13%
	LDGT1	19712	0.1220	3.5014	0.4066	19712	0.1026	2.9674	0.3728	0.0194	15.90%	0.5340	15.25%	0.0338	8.30%
	LDGT2	6350	0.1850	2.7755	0.6548	6350	0.1711	2.4602	0.6219	0.0138	7.47%	0.3153	11.36%	0.0329	5.03%
2002 Total		54122	0.1257	3.0254	0.3864	54122	0.1055	2.6256	0.3506	0.0202	16.10%	0.3998	13.21%	0.0358	9.25%

Vehicle		Overall Initial Exhaust Emissions				Overall Final Exhaust Emissions				Emission Reduction					
Year	Type	Total	Avg HC (gpm)	Avg CO(gpm)	Avg NOx (gpm)	Total	Avg HC (gpm)	Avg CO(gpm)	Avg NOx (gpm)	Avg HC (gpm)	% Improvement	Avg CO (gpm)	% Improvement	Avg NOx(gpm)	% Improvement
2003	LDGV	33501	0.0731	1.5456	0.2370	33501	0.0607	1.3820	0.2137	0.0124	16.96%	0.1636	10.58%	0.0233	9.82%
	LDGT1	24446	0.0846	1.8987	0.3024	24446	0.0763	1.6681	0.2861	0.0084	9.87%	0.2306	12.14%	0.0163	5.39%
	LDGT2	9435	0.1477	2.1929	0.4183	9435	0.1285	1.8399	0.3964	0.0192	13.02%	0.3530	16.10%	0.0219	5.24%
2003 Total		67382	0.0877	1.7644	0.2861	67382	0.0759	1.5499	0.2656	0.0119	13.55%	0.2144	12.15%	0.0206	7.18%
2004	LDGV	22513	0.0679	1.5057	0.1795	22513	0.0549	1.3054	0.1568	0.0130	19.17%	0.2003	13.30%	0.0227	12.64%
	LDGT1	18145	0.0674	1.6620	0.2020	18145	0.0602	1.4826	0.1836	0.0072	10.67%	0.1794	10.80%	0.0185	9.13%
	LDGT2	8114	0.0975	1.7710	0.2177	8114	0.0787	1.4682	0.1954	0.0188	19.26%	0.3028	17.10%	0.0223	10.25%
2004 Total		48772	0.0726	1.6080	0.1942	48772	0.0608	1.3984	0.1732	0.0118	16.26%	0.2096	13.04%	0.0210	10.84%
2005	LDGV	33197	0.0452	1.0961	0.1420	33197	0.0383	0.9699	0.1252	0.0069	15.32%	0.1262	11.52%	0.0168	11.86%
	LDGT1	28213	0.0503	1.0730	0.1217	28213	0.0478	1.0288	0.1149	0.0025	4.94%	0.0443	4.13%	0.0068	5.61%
	LDGT2	9515	0.0893	1.3958	0.1768	9515	0.0783	1.2771	0.1617	0.0110	12.32%	0.1187	8.50%	0.0151	8.56%
2005 Total		70925	0.0531	1.1272	0.1386	70925	0.0474	1.0345	0.1260	0.0057	10.74%	0.0926	8.22%	0.0126	9.11%
2006	LDGV	23547	0.0464	1.2777	0.1300	23547	0.0384	1.1340	0.1038	0.0081	17.36%	0.1437	11.25%	0.0262	20.17%
	LDGT1	17009	0.0398	1.1235	0.1203	17009	0.0383	1.0888	0.1102	0.0015	3.66%	0.0347	3.09%	0.0101	8.38%
	LDGT2	7865	0.0652	1.0359	0.1348	7865	0.0587	0.9499	0.1135	0.0065	10.04%	0.0860	8.30%	0.0213	15.80%
2006 Total		48421	0.0472	1.1843	0.1274	48421	0.0417	1.0882	0.1076	0.0055	11.65%	0.0960	8.11%	0.0198	15.51%
2007	LDGV	32660	0.0335	0.9693	0.1026	32660	0.0310	0.9318	0.0894	0.0026	7.67%	0.0376	3.88%	0.0132	12.82%
	LDGT1	26703	0.0308	0.9589	0.0962	26703	0.0296	0.9236	0.0919	0.0011	3.71%	0.0353	3.68%	0.0043	4.50%
	LDGT2	10855	0.0472	0.7640	0.0854	10855	0.0446	0.7386	0.0824	0.0025	5.35%	0.0254	3.32%	0.0030	3.51%
2007 Total		70218	0.0346	0.9336	0.0975	70218	0.0326	0.8988	0.0893	0.0020	5.84%	0.0348	3.73%	0.0082	8.44%
2008	LDGV	16808	0.0383	1.0860	0.1099	16808	0.0327	1.0147	0.0857	0.0056	14.59%	0.0713	6.57%	0.0242	22.00%
	LDGT1	12872	0.0291	0.9361	0.0973	12872	0.0288	0.9169	0.0882	0.0003	1.16%	0.0192	2.05%	0.0090	9.28%
	LDGT2	6716	0.0444	1.0128	0.0810	6716	0.0394	0.9686	0.0778	0.0050	11.18%	0.0442	4.36%	0.0032	3.94%
2008 Total		36396	0.0362	1.0195	0.1001	36396	0.0326	0.9716	0.0851	0.0036	10.00%	0.0479	4.70%	0.0149	14.93%
2009	LDGV	27832	0.0307	0.9754	0.0913	27832	0.0290	0.9577	0.0809	0.0017	5.61%	0.0176	1.81%	0.0103	11.32%
	LDGT1	16969	0.0261	0.9074	0.0832	16969	0.0258	0.9005	0.0791	0.0003	1.24%	0.0069	0.76%	0.0041	4.89%
	LDGT2	7291	0.0321	0.6565	0.0645	7291	0.0324	0.6732	0.0649	-0.0002	-0.71%	-0.0167	-2.55%	-0.0004	-0.59%
2009 Total		52092	0.0294	0.9086	0.0849	52092	0.0284	0.8993	0.0781	0.0010	3.38%	0.0093	1.02%	0.0068	8.00%
2010	LDGV	6223	0.0290	0.9918	0.0824	6223	0.0269	0.9597	0.0738	0.0022	7.42%	0.0321	3.24%	0.0086	10.45%
	LDGT1	4455	0.0251	0.8327	0.0723	4455	0.0242	0.7951	0.0714	0.0009	3.47%	0.0376	4.51%	0.0009	1.24%
	LDGT2	2171	0.0346	0.7438	0.0576	2171	0.0341	0.7354	0.0584	0.0005	1.51%	0.0084	1.13%	-0.0008	-1.42%
2010 Total		12849	0.0286	0.8947	0.0747	12849	0.0272	0.8647	0.0704	0.0014	5.01%	0.0300	3.35%	0.0043	5.81%
2011	LDGV	3251	0.0281	1.0022	0.0713	3251	0.0273	0.9957	0.0675	0.0009	3.03%	0.0065	0.65%	0.0038	5.29%
	LDGT1	1496	0.0274	0.9824	0.0590	1496	0.0270	0.9430	0.0597	0.0004	1.37%	0.0394	4.01%	-0.0007	-1.23%
	LDGT2	842	0.0340	0.6453	0.0586	842	0.0339	0.6730	0.0517	0.0001	0.32%	-0.0277	-4.29%	0.0069	11.77%
2011 Total		5589	0.0288	0.9431	0.0661	5589	0.0282	0.9330	0.0631	0.0006	2.13%	0.0102	1.08%	0.0030	4.60%
2012	LDGV	2439	0.0249	1.0339	0.0595	2439	0.0243	1.0067	0.0579	0.0006	2.29%	0.0272	2.63%	0.0017	2.78%
	LDGT1	841	0.0257	0.8965	0.0568	841	0.0255	0.8957	0.0567	0.0002	0.68%	0.0007	0.08%	0.0001	0.24%
	LDGT2	503	0.0297	0.5570	0.0493	503	0.0295	0.5554	0.0497	0.0003	0.87%	0.0016	0.28%	-0.0004	-0.82%
2012 Total		3783	0.0257	0.9399	0.0576	3783	0.0253	0.9220	0.0565	0.0004	1.71%	0.0179	1.90%	0.0010	1.81%
2013	LDGV	653	0.0214	0.7544	0.0584	653	0.0214	0.7522	0.0574	-0.0000	-0.14%	0.0022	0.29%	0.0010	1.69%
	LDGT1	369	0.0276	0.8047	0.0468	369	0.0275	0.8070	0.0467	0.0000	0.15%	-0.0022	-0.28%	0.0001	0.20%

Vehicle		Overall Initial Exhaust Emissions				Overall Final Exhaust Emissions				Emission Reduction					
Year	Type	Total	Avg HC (gpm)	Avg CO(gpm)	Avg NOx (gpm)	Total	Avg HC (gpm)	Avg CO(gpm)	Avg NOx (gpm)	Avg HC (gpm)	% Improvement	Avg CO (gpm)	% Improvement	Avg NOx(gpm)	% Improvement
	LDGT2	237	0.0317	0.5488	0.0537	237	0.0316	0.5461	0.0537	0.0001	0.30%	0.0027	0.49%	0.0001	0.14%
2013 Total		1259	0.0252	0.7304	0.0541	1259	0.0251	0.7295	0.0536	0.0000	0.06%	0.0010	0.13%	0.0006	1.03%
2014	LDGV	21	0.0324	0.8527	0.0579	21	0.0324	0.8527	0.0579	0.0000	0.00%	0.0000	0.00%	0.0000	0.00%
	LDGT1	18	0.0190	0.5729	0.0484	18	0.0190	0.5729	0.0484	0.0000	0.00%	0.0000	0.00%	0.0000	0.00%
	LDGT2	13	0.0259	0.4596	0.0517	13	0.0259	0.4596	0.0517	0.0000	0.00%	0.0000	0.00%	0.0000	0.00%
2014 Total		52	0.0261	0.6576	0.0531	52	0.0261	0.6576	0.0531	0.0000	0.00%	0.0000	0.00%	0.0000	0.00%
Grand Total		887913	0.2624	3.6557	0.5991	887913	0.2200	3.0373	0.5597	0.0425	16.18%	0.6184	16.92%	0.0394	6.57%

Records 1 - 99 (All Records)

Summary by Vehicle Type (V1.01)

Vehicle	Overall Initial Exhaust Emissions				Overall Final Exhaust Emissions				Emission Reduction					
Type	Total	Avg HC (gpm)	Avg CO(gpm)	Avg NOx (gpm)	Total	Avg HC (gpm)	Avg CO(gpm)	Avg NOx (gpm)	Avg HC (gpm)	% Improvement	Avg CO (gpm)	% Improvement	Avg NOx(gpm)	% Improvement
LDGV	444327	0.2162	3.1466	0.4976	444327	0.1807	2.6111	0.4652	0.0355	16.42%	0.5355	17.02%	0.0324	6.51%
LDGT1	315484	0.2849	4.0437	0.6683	315484	0.2438	3.3969	0.6288	0.0411	14.43%	0.6467	15.99%	0.0395	5.91%
LDGT2	128102	0.3675	4.4660	0.7804	128102	0.2975	3.6299	0.7173	0.0700	19.04%	0.8361	18.72%	0.0632	8.09%
Grand Total	887913	0.2624	3.6557	0.5991	887913	0.2200	3.0373	0.5597	0.0425	16.18%	0.6184	16.92%	0.0394	6.57%

Appendix K

Idle Initial Inspection Report

Enhanced Area

Idle Initial Inspection Report (V1.01)

Vehicle		All Initial Inspections					Passing Initial Inspections						Failing Initial Inspections					
Year	Type	Total	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm
1974	LDGV	1,261	485.43	2.58	393.18	3.08	841	66.69%	289.31	1.28	250.1	2.37	420	33.31%	878.14	5.19	679.68	4.51
	LDGT	776	415.25	2.03	331.82	2.55	567	73.07%	284.2	1.17	259.29	2.15	209	26.93%	770.78	4.35	528.59	3.64
	HDGT	752	394.29	2.17	381.24	2.67	663	88.16%	294.67	1.79	322.44	2.49	89	11.84%	1136.43	4.95	819.3	4.05
1974 Total		2,789	441.33	2.32	372.89	2.82	2071	74.26%	289.63	1.42	275.78	2.35	718	25.74%	878.91	4.91	653.01	4.2
1975	LDGV	89	216.83	1.12	166.73	1.73	66	74.16%	151.1	0.63	107.89	1.57	23	25.84%	405.44	2.53	335.6	2.17
	LDGT	44	346.6	1.4	436.23	2.53	21	47.73%	127.51	0.51	168.78	1.48	23	52.27%	546.63	2.22	680.43	3.49
	HDGT	187	337.67	2.09	314.1	2.04	160	85.56%	246.43	1.57	258.49	1.88	27	14.44%	878.35	5.16	643.65	3
1975 Total		320	305.29	1.72	289.91	2.02	247	77.19%	210.85	1.23	210.62	1.76	73	22.81%	624.84	3.4	558.18	2.89
1976	LDGV	420	307.97	1.53	238.21	1.95	265	63.10%	137.64	0.54	116.13	1.3	155	36.90%	599.18	3.23	446.92	3.05
	LDGT	255	331.41	1.62	273.1	1.82	136	53.33%	152.93	0.57	165.77	1.32	119	46.67%	535.38	2.81	395.76	2.39
	HDGT	801	369.79	2.12	309.87	2.53	675	84.27%	258.21	1.67	244.76	2.34	126	15.73%	967.51	4.5	658.69	3.5
1976 Total		1,476	345.57	1.87	283.12	2.24	1076	72.90%	215.21	1.26	203.1	1.96	400	27.10%	696.22	3.51	498.4	3
1977	LDGV	530	217.12	1	182.99	1.36	359	67.74%	94.1	0.28	86.92	0.88	171	32.26%	475.38	2.52	384.68	2.39
	LDGT	210	268.71	1.47	234.08	1.75	112	53.33%	117.53	0.37	136.14	1.01	98	46.67%	441.49	2.73	346.02	2.59
	HDGT	1,058	366.85	2.05	305.93	2.17	907	85.73%	277.48	1.58	246.74	1.98	151	14.27%	903.65	4.83	661.45	3.31
1977 Total		1,798	311.25	1.67	261.3	1.88	1378	76.64%	216.71	1.14	196.11	1.61	420	23.36%	621.44	3.4	475.16	2.76
1978	LDGV	712	218.37	1.01	196.36	1.51	468	65.73%	109.7	0.31	114.73	0.99	244	34.27%	426.81	2.34	352.92	2.5
	LDGT	321	253.33	1.32	218.01	1.77	181	56.39%	118.47	0.43	150.66	1.15	140	43.61%	427.67	2.48	305.08	2.57
	HDGT	1,297	398.49	1.99	306.36	2.16	1094	84.35%	278.09	1.6	229.49	1.93	203	15.65%	1047.38	4.1	720.64	3.38
1978 Total		2,330	323.45	1.6	260.57	1.91	1743	74.81%	216.3	1.13	190.49	1.6	587	25.19%	641.62	2.98	468.68	2.82
1979	LDGV	818	198.24	0.87	172.54	1.54	574	70.17%	112.08	0.29	118.36	1.05	244	29.83%	400.93	2.26	299.98	2.71
	LDGT	992	236.09	1.12	211.86	1.74	617	62.20%	120	0.3	128.93	1.24	375	37.80%	427.11	2.48	348.31	2.57
	HDGT	314	311.72	1.49	216.98	1.7	267	85.03%	209.15	1.13	158.9	1.42	47	14.97%	894.37	3.55	546.88	3.29
1979 Total		2,124	232.69	1.08	197.47	1.66	1458	68.64%	133.21	0.44	130.26	1.2	666	31.36%	450.49	2.47	344.62	2.67
1980	LDGV	537	181.12	0.74	173.85	1.46	410	76.35%	83.11	0.21	100.45	1.06	127	23.65%	497.56	2.46	410.81	2.74
	LDGT	521	214.44	0.9	194.82	1.56	361	69.29%	101.25	0.26	108.77	1.11	160	30.71%	469.83	2.35	388.96	2.59
	HDGT	147	292.09	1.19	201.14	1.52	125	85.03%	188.29	0.93	116.02	1.3	22	14.97%	881.87	2.66	684.8	2.76
1980 Total		1,205	209.07	0.87	186.24	1.51	896	74.36%	105.09	0.33	105.97	1.11	309	25.64%	510.57	2.42	419.01	2.67
1981	LDGV	493	124.24	0.49	133.03	1.08	324	65.72%	54.45	0.14	51.24	0.32	169	34.28%	258.06	1.15	289.82	2.53
	LDGT	556	202.43	0.82	180.27	1.22	285	51.26%	69.71	0.13	52.9	0.29	271	48.74%	342	1.53	314.23	2.2
	HDGT	257	286.9	1.2	214.69	1.31	207	80.54%	137.42	0.81	96.46	0.98	50	19.46%	905.75	2.82	704.12	2.7
1981 Total		1,306	189.54	0.77	169.21	1.19	816	62.48%	80.83	0.31	63.29	0.48	490	37.52%	370.57	1.53	345.59	2.37
1982	LDGV	12	121.3	1.62	105.98	1.45	4	33.33%	9.95	0.01	12.63	0.04	8	66.67%	176.98	2.42	152.66	2.15
	LDGT	2	419.25	0.89	252.6	0.25	1	50.00%	98.6	0.23	106.4	0.21	1	50.00%	739.9	1.55	398.8	0.29

Vehicle		All Initial Inspections					Passing Initial Inspections						Failing Initial Inspections					
Year	Type	Total	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm
	HDGT	149	246.71	1.03	133.62	1.06	117	78.52%	140.32	0.8	86.22	0.84	32	21.48%	635.7	1.86	306.93	1.86
1982 Total		163	239.59	1.07	133.05	1.08	122	74.85%	135.7	0.77	83.97	0.81	41	25.15%	548.74	1.96	279.07	1.88
1983	LDGV	14	159.61	0.98	176.52	1.29	7	50.00%	45.64	0.38	52.27	0.95	7	50.00%	273.57	1.57	300.77	1.63
	LDGT	6	53.77	0.43	115.95	0.65	5	83.33%	30.72	0.11	26.86	0.18	1	16.67%	169	2.04	561.4	3.02
	HDGT	260	267.43	1.31	156.44	1.07	200	76.92%	135.02	0.84	86.71	0.8	60	23.08%	708.79	2.91	388.85	1.96
1983 Total		280	257.46	1.28	156.57	1.07	212	75.71%	129.61	0.8	84.16	0.79	68	24.29%	656.05	2.76	382.32	1.94
1984	LDGV	9	136.37	0.97	115.14	1.24	5	55.56%	97.9	0.34	89.4	0.47	4	44.44%	184.45	1.75	147.33	2.21
	LDGT	5	170.12	1.82	224.68	3.48	2	40.00%	12.55	0.03	13.35	0.03	3	60.00%	275.17	3.02	365.57	5.79
	HDGT	344	214.88	1.1	135.33	1.05	288	83.72%	129.41	0.86	80.76	0.81	56	16.28%	654.48	2.37	415.97	2.26
1984 Total		358	212.29	1.11	136.07	1.09	295	82.40%	128.08	0.84	80.45	0.8	63	17.60%	606.57	2.37	396.52	2.43
1985	LDGV	14	163.57	0.44	133.06	0.44	8	57.14%	67.63	0.22	52.57	0.28	6	42.86%	291.5	0.73	240.38	0.65
	LDGT	5	249.98	2.63	139.68	1.65	2	40.00%	92.25	0.37	61.4	0.42	3	60.00%	355.13	4.15	191.87	2.47
	HDGT	466	223.88	0.96	136.55	0.83	380	81.55%	139.26	0.7	86.97	0.7	86	18.45%	597.74	2.09	355.62	1.39
1985 Total		485	222.4	0.96	136.48	0.83	390	80.41%	137.55	0.69	86.13	0.69	95	19.59%	570.74	2.07	343.17	1.38
1986	LDGV	16	139.14	0.94	128.38	0.83	11	68.75%	67.5	0.3	52.55	0.36	5	31.25%	296.74	2.36	295.22	1.84
	LDGT	10	152.03	0.3	126.65	1.21	4	40.00%	104.68	0.24	79	0.69	6	60.00%	183.6	0.33	158.42	1.55
	HDGT	368	224.83	1.06	139.51	0.94	260	70.65%	96.49	0.6	60.19	0.67	108	29.35%	533.82	2.16	330.46	1.61
1986 Total		394	219.51	1.03	138.73	0.95	275	69.80%	95.45	0.58	60.16	0.66	119	30.20%	506.2	2.08	320.31	1.62
1987	LDGV	24	131.1	0.62	84.66	0.71	19	79.17%	68.53	0.25	60.96	0.51	5	20.83%	368.86	2.02	174.72	1.47
	LDGT	33	152.07	0.29	137.87	0.42	23	69.70%	79.58	0.17	80.95	0.34	10	30.30%	318.79	0.56	268.78	0.61
	HDGT	370	176.24	0.72	126.03	0.74	291	78.65%	88.79	0.43	71.95	0.51	79	21.35%	498.38	1.79	325.22	1.58
1987 Total		427	171.84	0.68	124.62	0.71	333	77.99%	87	0.4	71.94	0.5	94	22.01%	472.38	1.67	311.21	1.47
1988	LDGV	14	166.59	0.5	167.09	0.6	11	78.57%	75	0.09	56.51	0.28	3	21.43%	502.43	1.98	572.53	1.78
	LDGT	57	154.22	0.32	123.04	0.48	43	75.44%	103.6	0.23	96.28	0.4	14	24.56%	309.71	0.59	205.22	0.72
	HDGT	421	138.25	0.63	111.92	0.69	353	83.85%	76.56	0.32	65.45	0.44	68	16.15%	458.48	2.25	353.16	1.95
1988 Total		492	140.91	0.59	114.78	0.66	407	82.72%	79.38	0.3	68.46	0.43	85	17.28%	435.53	1.96	336.54	1.74
1989	LDGV	38	70.84	0.24	49.02	0.22	33	86.84%	48.22	0.17	39.15	0.2	5	13.16%	220.12	0.7	114.14	0.41
	LDGT	78	150.35	0.35	129.45	0.57	54	69.23%	93.21	0.24	83.04	0.38	24	30.77%	278.91	0.6	233.88	1.01
	HDGT	883	125.08	0.53	99	0.59	764	86.52%	78.74	0.31	65.52	0.43	119	13.48%	422.58	1.96	314.01	1.62
1989 Total		999	124.99	0.51	99.48	0.57	851	85.19%	78.47	0.3	65.6	0.41	148	14.81%	392.44	1.69	294.26	1.48
1990	LDGV	43	109.3	0.28	87.56	0.51	36	83.72%	54.73	0.18	52.85	0.37	7	16.28%	389.93	0.79	266.1	1.24
	LDGT	105	180.33	0.43	132.56	0.44	77	73.33%	93.6	0.24	78.15	0.36	28	26.67%	418.82	0.94	282.18	0.65
	HDGT	640	120.96	0.59	84.1	0.61	559	87.34%	75.34	0.31	56.15	0.44	81	12.66%	435.8	2.52	276.98	1.72
1990 Total		788	128.24	0.55	90.75	0.58	672	85.28%	76.33	0.3	58.5	0.43	116	14.72%	428.93	2.03	277.58	1.43
	LDGV	52	67.09	0.12	55.51	0.24	47	90.38%	45.37	0.11	46.9	0.16	5	9.62%	271.28	0.17	136.48	0.93

Vehicle		All Initial Inspections					Passing Initial Inspections						Failing Initial Inspections					
Year	Type	Total	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm
1991	LDGT	97	138.51	0.27	92.41	0.32	80	82.47%	90.98	0.23	71.38	0.31	17	17.53%	362.19	0.45	191.36	0.38
	HDGT	710	100.47	0.54	68.35	0.57	642	90.42%	71.8	0.33	51.05	0.44	68	9.58%	371.23	2.55	231.75	1.82
1991 Total		859	102.75	0.49	70.29	0.52	769	89.52%	72.18	0.31	52.91	0.41	90	10.48%	363.97	2.03	218.83	1.5
1992	LDGV	55	104.85	0.27	108.2	0.48	45	81.82%	56.41	0.12	53.37	0.15	10	18.18%	322.8	0.99	354.96	1.97
	LDGT	78	145.19	0.39	71.02	0.3	64	82.05%	75.26	0.19	51.99	0.23	14	17.95%	464.86	1.33	158	0.61
	HDGT	772	106.14	0.5	76.44	0.61	670	86.79%	65.75	0.26	49.43	0.44	102	13.21%	371.43	2.09	253.9	1.72
1992 Total		905	109.42	0.48	77.91	0.58	779	86.08%	65.99	0.24	49.87	0.41	126	13.92%	377.95	1.92	251.26	1.62
1993	LDGV	36	49.04	0.09	46.36	0.24	29	80.56%	33.29	0.06	35.27	0.17	7	19.44%	114.31	0.18	92.31	0.53
	LDGT	49	117.44	0.32	97.2	0.39	40	81.63%	84.01	0.24	58.14	0.33	9	18.37%	266.04	0.69	270.82	0.65
	HDGT	1,078	102.18	0.47	71.99	0.58	979	90.82%	62.78	0.24	46.37	0.41	99	9.18%	491.8	2.71	325.31	2.24
1993 Total		1,163	101.18	0.45	72.26	0.56	1048	90.11%	62.77	0.23	46.51	0.4	115	9.89%	451.16	2.4	306.86	2.01
1994	LDGV	56	48.15	0.17	56.36	0.38	52	92.86%	45.55	0.14	51.46	0.33	4	7.14%	81.9	0.58	120.08	0.94
	LDGT	102	98.32	0.28	81.38	0.46	91	89.22%	84.89	0.28	72.67	0.45	11	10.78%	209.5	0.26	153.4	0.52
	HDGT	1,190	102.93	0.56	72.4	0.66	1044	87.73%	56.93	0.25	39.25	0.38	146	12.27%	431.91	2.75	309.44	2.63
1994 Total		1,348	100.31	0.52	72.41	0.63	1187	88.06%	58.57	0.25	42.35	0.39	161	11.94%	408.02	2.52	294.08	2.44
1995	LDGV	78	52.49	0.13	55.89	0.27	73	93.59%	40.77	0.1	45.6	0.2	5	6.41%	223.62	0.62	206.06	1.26
	LDGT	54	89.35	0.31	54.7	0.37	45	83.33%	69.05	0.19	43.99	0.28	9	16.67%	190.82	0.9	108.24	0.81
	HDGT	1,796	94.57	0.52	68.28	0.71	1599	89.03%	59.12	0.27	43.76	0.47	197	10.97%	382.31	2.61	267.36	2.69
1995 Total		1,928	92.72	0.5	67.4	0.68	1717	89.06%	58.6	0.26	43.84	0.45	211	10.94%	370.38	2.49	259.12	2.58
1996	LDGV	58	24.73	0.14	25.16	0.16	57	98.28%	22.67	0.06	23.94	0.11	1	1.72%	142.1	4.62	94.6	3.43
	LDGT	45	49.32	0.11	34.71	0.17	44	97.78%	45.12	0.1	33.58	0.16	1	2.22%	234.3	0.53	84.2	0.49
	HDGT	1,457	77.63	0.33	50.69	0.39	1355	93.00%	56.95	0.21	37.33	0.29	102	7.00%	352.41	1.98	228.18	1.72
1996 Total		1,560	74.85	0.32	49.28	0.38	1456	93.33%	55.25	0.2	36.69	0.28	104	6.67%	349.25	1.99	225.51	1.73
1997	LDGV	62	36.35	0.07	39.65	0.1	60	96.77%	35.42	0.07	40.15	0.1	2	3.23%	64.25	0.01	24.6	0.16
	LDGT	129	40.51	0.1	37.95	0.21	118	91.47%	37.01	0.09	32.86	0.19	11	8.53%	78.11	0.19	92.46	0.43
	HDGT	2,349	69.55	0.25	45.75	0.26	2258	96.13%	53.22	0.18	34.7	0.23	91	3.87%	474.61	1.75	320.01	0.99
1997 Total		2,540	67.26	0.23	45.2	0.26	2436	95.91%	52	0.18	34.74	0.23	104	4.09%	424.78	1.55	290.26	0.92
1998	LDGV	67	21.17	0.03	22.53	0.07	67	100.00%	21.17	0.03	22.53	0.07	0	0.00%	0	0	0	0
	LDGT	157	78.08	0.23	46.14	0.3	144	91.72%	61.66	0.18	37.14	0.24	13	8.28%	259.88	0.77	145.88	0.87
	HDGT	1,303	101.92	0.27	57.67	0.29	1207	92.63%	62.99	0.17	38.77	0.23	96	7.37%	591.49	1.49	295.35	1.05
1998 Total		1,527	95.93	0.25	54.95	0.28	1418	92.86%	60.88	0.16	37.84	0.23	109	7.14%	551.94	1.41	277.52	1.03
1999	LDGV	155	21.75	0.04	22.89	0.07	151	97.42%	17.37	0.03	20.2	0.06	4	2.58%	186.88	0.58	124.25	0.3
	LDGT	1,508	47.52	0.16	31.43	0.15	1430	94.83%	40.29	0.13	24.86	0.13	78	5.17%	180.06	0.72	151.74	0.5
	HDGT	3,167	66.7	0.18	43.37	0.22	3046	96.18%	47.52	0.14	33.82	0.2	121	3.82%	549.51	1.29	283.71	0.91
1999 Total		4,830	59.27	0.17	38.98	0.2	4627	95.80%	44.3	0.13	30.61	0.17	203	4.20%	400.41	1.06	229.86	0.74

Vehicle		All Initial Inspections					Passing Initial Inspections					Failing Initial Inspections						
Year	Type	Total	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm
2000	LDGV	119	13.45	0.03	16.09	0.08	116	97.48%	13.26	0.03	15.64	0.08	3	2.52%	20.93	0.03	33.37	0.03
	LDGT	1,843	35.11	0.13	30.19	0.12	1707	92.62%	30.13	0.11	25.28	0.1	136	7.38%	97.58	0.48	91.8	0.34
	HDGT	2,580	63.28	0.18	41.8	0.2	2479	96.09%	46.68	0.13	30.91	0.16	101	3.91%	470.61	1.42	309.32	1.27
2000 Total		4,542	50.54	0.16	36.42	0.16	4302	94.72%	39.21	0.12	28.26	0.13	240	5.28%	253.6	0.87	182.61	0.72
2001	LDGV	243	15.37	0.07	16.01	0.09	237	97.53%	13.15	0.04	14.35	0.07	6	2.47%	103.13	1.06	81.42	0.93
	LDGT	3,099	25.23	0.11	21.35	0.09	2896	93.45%	22.6	0.08	18.64	0.07	203	6.55%	62.75	0.49	59.93	0.39
	HDGT	3,434	45.2	0.12	30.35	0.16	3372	98.19%	40.05	0.1	27.34	0.14	62	1.81%	325.63	1.24	194.31	1.25
2001 Total		6,776	35	0.11	25.72	0.12	6505	96.00%	31.3	0.09	22.99	0.1	271	4.00%	123.79	0.67	91.15	0.6
2002	LDGV	222	11.66	0.03	13.86	0.06	216	97.30%	10.75	0.03	13.03	0.04	6	2.70%	44.48	0.28	43.65	0.72
	LDGT	2,197	37.51	0.18	28.51	0.15	1994	90.76%	31.88	0.12	23.51	0.11	203	9.24%	92.81	0.77	77.64	0.58
	HDGT	1,975	51.19	0.14	34.97	0.2	1927	97.57%	42.07	0.11	28.02	0.18	48	2.43%	417.24	1.14	314.08	1.2
2002 Total		4,394	42.35	0.15	30.67	0.17	4137	94.15%	35.53	0.11	25.06	0.14	257	5.85%	152.28	0.83	121.01	0.7
2003	LDGV	377	13.55	0.06	13.54	0.08	367	97.35%	10.83	0.03	11.71	0.05	10	2.65%	113.23	1.02	80.77	1.09
	LDGT	2,900	24.9	0.1	18.79	0.1	2745	94.66%	22.02	0.08	16.73	0.08	155	5.34%	75.94	0.5	55.13	0.39
	HDGT	2,959	33.22	0.12	21.98	0.14	2915	98.51%	29.52	0.1	19.93	0.13	44	1.49%	278.64	1.69	158.25	1.15
2003 Total		6,236	28.16	0.11	19.99	0.12	6027	96.65%	24.96	0.09	17.97	0.1	209	3.35%	120.4	0.78	78.07	0.58
2004	LDGV	295	17.59	0.05	19.07	0.11	280	94.92%	13.6	0.03	14.23	0.07	15	5.08%	92.02	0.4	109.25	0.95
	LDGT	1,913	18.49	0.08	15.72	0.07	1794	93.78%	15.63	0.06	13.66	0.06	119	6.22%	61.58	0.32	46.83	0.23
	HDGT	1,898	23.25	0.06	16.61	0.11	1886	99.37%	21.95	0.05	15.68	0.1	12	0.63%	227.91	0.97	162.21	1.57
2004 Total		4,106	20.63	0.07	16.37	0.09	3960	96.44%	18.5	0.06	14.66	0.08	146	3.56%	78.38	0.38	62.73	0.42
2005	LDGV	405	19.83	0.04	19.72	0.11	392	96.79%	15.12	0.03	15.41	0.06	13	3.21%	161.95	0.26	149.84	1.44
	LDGT	2,483	14.44	0.05	13.59	0.05	2385	96.05%	13.92	0.04	13.05	0.05	98	3.95%	27.17	0.08	26.74	0.15
	HDGT	2,531	22.65	0.06	14.83	0.08	2515	99.37%	20.2	0.06	14.19	0.08	16	0.63%	406.5	0.93	114.5	0.76
2005 Total		5,419	18.68	0.05	14.63	0.07	5292	97.66%	16.99	0.05	13.77	0.06	127	2.34%	88.75	0.21	50.4	0.36
2006	LDGV	408	11.13	0.04	15.49	0.09	400	98.04%	7.88	0.02	11.34	0.04	8	1.96%	174.1	1.04	223.11	2.5
	LDGT	1,436	7.82	0.02	9.14	0.04	1377	95.89%	7.49	0.02	8.93	0.04	59	4.11%	15.62	0.06	14.06	0.08
	HDGT	2,049	21.36	0.05	16.14	0.07	2036	99.37%	18.36	0.05	13.84	0.07	13	0.63%	490.82	0.69	376.72	0.29
2006 Total		3,893	15.29	0.04	13.49	0.06	3813	97.95%	13.33	0.04	11.8	0.05	80	2.05%	108.69	0.26	93.9	0.36
2007	LDGV	523	7.86	0.02	10.19	0.04	516	98.66%	7.04	0.02	9.28	0.03	7	1.34%	67.71	0.12	77.26	0.59
	LDGT	2,846	4.54	0.02	7.83	0.03	2787	97.93%	4.47	0.02	7.73	0.02	59	2.07%	8.17	0.03	12.94	0.18
	HDGT	2,189	12.06	0.04	11.45	0.05	2181	99.63%	9.78	0.03	8.52	0.04	8	0.37%	633.84	1.74	808.94	2.3
2007 Total		5,558	7.82	0.02	9.48	0.04	5484	98.67%	6.82	0.02	8.19	0.03	74	1.33%	81.44	0.23	105.08	0.44
2008	LDGV	600	8.7	0.04	11.66	0.08	587	97.83%	6.12	0.02	8.41	0.03	13	2.17%	125.26	1.14	158.42	2.54
	LDGT	1,473	5.45	0.03	7.42	0.04	1448	98.30%	5.17	0.02	7.15	0.04	25	1.70%	21.42	0.14	23.52	0.3
	HDGT	1,380	14.1	0.04	12.04	0.07	1376	99.71%	11.73	0.04	9.54	0.07	4	0.29%	831.08	1.33	872.3	0.69

Vehicle		All Initial Inspections					Passing Initial Inspections						Failing Initial Inspections					
Year	Type	Total	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm
2008 Total		3,453	9.47	0.04	10.01	0.06	3411	98.78%	7.98	0.03	8.33	0.05	42	1.22%	130.67	0.56	146.11	1.03
2009	LDGV	571	4.62	0.01	5.7	0.03	569	99.65%	4.63	0.01	5.66	0.03	2	0.35%	2.3	0	17.35	0.72
	LDGT	1,576	3.76	0.02	7.02	0.03	1552	98.48%	3.49	0.01	6.78	0.03	24	1.52%	21.08	0.04	22.38	0.22
	HDGT	1,420	15.85	0.06	15.45	0.1	1417	99.79%	15.81	0.06	15.41	0.1	3	0.21%	35.4	0.11	33.3	0.27
2009 Total		3,567	8.71	0.03	10.16	0.06	3538	99.19%	8.6	0.03	10.06	0.06	29	0.81%	21.27	0.04	23.16	0.26
2010	LDGV	81	5.79	0.05	7.89	0.09	78	96.30%	3.8	0.02	6.18	0.04	3	3.70%	57.37	1.05	52.33	1.46
	LDGT	436	4.15	0.02	6.08	0.04	432	99.08%	4.17	0.02	6.08	0.04	4	0.92%	1.95	0.04	6.75	0.03
	HDGT	323	30.42	0.02	34.43	0.05	321	99.38%	29.19	0.02	34.13	0.05	2	0.62%	227.9	0.03	82.85	0.05
2010 Total		840	14.41	0.02	17.16	0.05	831	98.93%	13.8	0.02	16.92	0.04	9	1.07%	70.63	0.37	38.86	0.51
2011	LDGV	38	3.05	0.02	4.33	0.04	38	100.00%	3.05	0.02	4.33	0.04	0	0.00%	0	0	0	0
	LDGT	160	6.01	0.03	7.74	0.05	156	97.50%	6.15	0.03	7.92	0.05	4	2.50%	0.23	0.02	0.58	0.01
	HDGT	183	10.16	0.03	10.29	0.07	182	99.45%	10.21	0.03	10.34	0.07	1	0.55%	0.6	0.01	2.2	0.01
2011 Total		381	7.7	0.03	8.63	0.06	376	98.69%	7.8	0.03	8.73	0.06	5	1.31%	0.3	0.01	0.9	0.01
2012	LDGV	25	4.15	0.02	7.19	0.03	25	100.00%	4.15	0.02	7.19	0.03	0	0.00%	0	0	0	0
	LDGT	80	5.9	0.03	5.72	0.04	80	100.00%	5.9	0.03	5.72	0.04	0	0.00%	0	0	0	0
	HDGT	116	16.18	0.03	11.73	0.09	116	100.00%	16.18	0.03	11.73	0.09	0	0.00%	0	0	0	0
2012 Total		221	11.1	0.03	9.04	0.06	221	100.00%	11.1	0.03	9.04	0.06	0	0.00%	0	0	0	0
2013	LDGV	19	3.62	0.01	4.34	0.04	19	100.00%	3.62	0.01	4.34	0.04	0	0.00%	0	0	0	0
	LDGT	34	4.04	0.03	4.72	0.04	34	100.00%	4.04	0.03	4.72	0.04	0	0.00%	0	0	0	0
	HDGT	35	6.87	0.02	5.66	0.05	35	100.00%	6.87	0.02	5.66	0.05	0	0.00%	0	0	0	0
2013 Total		88	5.08	0.02	5.01	0.04	88	100.00%	5.08	0.02	5.01	0.04	0	0.00%	0	0	0	0
2014	LDGT	2	6.8	0.02	14.2	0.02	2	100.00%	6.8	0.02	14.2	0.02	0	0.00%	0	0	0	0
	HDGT	6	50	0	28.67	0.31	6	100.00%	50	0	28.67	0.31	0	0.00%	0	0	0	0
2014 Total		8	39.2	0.01	25.05	0.24	8	100.00%	39.2	0.01	25.05	0.24	0	0.00%	0	0	0	0
Grand Total		83,876	88.64	0.4	69.82	0.49	76,672	91.41%	53.37	0.22	44.4	0.34	7,204	8.59%	463.93	2.28	340.35	2.12

Summary by Vehicle (V1.01)

Vehicle Type	All Initial Inspections					Passing Initial Inspections						Failing Initial Inspections					
	Total	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm
LDGV	9589	150.6	0.72	129.71	1.02	7862	81.99%	70.14	0.25	66.96	0.59	1727	18.01%	516.88	2.87	415.41	2.96
LDGT	28673	56.31	0.25	47.9	0.31	25936	90.45%	31.21	0.11	28.44	0.18	2737	9.55%	294.13	1.56	232.3	1.56
HDGT	45614	95.93	0.43	71.01	0.49	42874	93.99%	63.71	0.29	49.92	0.38	2740	6.01%	600.17	2.64	400.98	2.15
Grand Total	83876	88.64	0.4	69.82	0.49	76672	91.41%	53.37	0.22	44.4	0.34	7204	8.59%	463.93	2.28	340.35	2.12

Appendix L

Idle Initial Failure Report

Enhanced Area

Idle Initial Failure Report (V1.02)

Vehicle		Failure For Both Exhaust And Visual						Failure For Exhaust Only						Failure For Visual Only					
Year	Type	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm
1974	LDGV	7	0.56%	1381.6	5.25	941.1	4.15	402	31.88%	884.8	5.28	679.95	4.54	11	0.87%	314.64	1.79	503.45	3.45
	LDGT	5	0.64%	822.5	5.33	590.58	3.2	203	26.16%	772.02	4.34	527.26	3.65	1	0.13%	262.2	2.56	488.6	5.12
	HDGT	1	0.13%	2084	5.28	1887	1.78	87	11.57%	1134.14	5	814.32	4.09	1	0.13%	388.1	0.55	184.8	2.16
1974 Total		13	0.47%	1220.59	5.29	879.05	3.6	692	24.81%	883.06	4.97	652.05	4.22	13	0.47%	316.25	1.75	477.8	3.48
1975	LDGV	2	2.25%	589.65	2.31	800.1	3.99	17	19.10%	454.35	3.09	332.46	2.04	1	1.12%	107.7	0.25	48.5	0.35
	LDGT	0	0.00%	0	0	0	0	15	34.09%	731.17	2.97	932.07	3.77	3	6.82%	326.4	1.21	331.77	3.68
	HDGT	0	0.00%	0	0	0	0	24	12.83%	931.72	5.71	656.22	3.32	2	1.07%	647.05	1.08	803.3	0.57
1975 Total		2	0.63%	589.65	2.31	800.1	3.99	56	17.50%	733.09	4.18	631.83	3.05	6	1.88%	396.83	1.01	441.73	2.09
1976	LDGV	17	4.05%	970.82	5.06	633.4	3.94	111	26.43%	647.69	3.6	484.96	3.22	14	3.33%	200.32	0.62	236.06	2.54
	LDGT	13	5.10%	985.46	4.37	765.08	4.56	71	27.84%	615.84	3.69	433.96	2.59	12	4.71%	134.51	0.51	137.2	1.33
	HDGT	5	0.62%	1601.2	5.58	736.16	4.9	102	12.73%	1055.98	4.96	706.8	3.61	12	1.50%	327.01	1.71	453.6	2.67
1976 Total		35	2.37%	1066.31	4.88	696.99	4.31	284	19.24%	786.37	4.11	551.88	3.2	38	2.57%	219.54	0.93	273.54	2.2
1977	LDGV	18	3.40%	678.62	2.96	560.53	2.78	127	23.96%	513.28	2.89	403.95	2.48	11	2.08%	204.47	0.53	230.06	2.29
	LDGT	18	8.57%	736.83	3.65	545.43	3.17	58	27.62%	460.76	3.35	334.88	2.56	9	4.29%	180.09	0.6	282.49	2
	HDGT	5	0.47%	2155.58	5.03	1739.7	4.64	120	11.34%	974.76	5.59	668.83	3.57	19	1.80%	280.32	1.33	428.36	2.02
1977 Total		41	2.28%	884.29	3.51	697.7	3.18	305	16.96%	684.86	4.04	495.03	2.93	39	2.17%	235.79	0.93	338.77	2.09
1978	LDGV	18	2.53%	730.02	2.37	495.81	2	176	24.72%	481.38	2.89	398.25	2.89	19	2.67%	124.45	0.5	184.54	1.88
	LDGT	14	4.36%	615.14	3.63	301.36	2.76	101	31.46%	480.48	2.87	356.1	2.81	9	2.80%	124.86	0.36	81.94	1.25
	HDGT	6	0.46%	1424.18	4.92	1183	4.73	163	12.57%	1169.68	4.54	792.85	3.59	28	2.16%	406.17	1.96	319.86	2.41
1978 Total		38	1.63%	797.3	3.24	532.67	2.71	440	18.88%	736.16	3.5	534.75	3.13	56	2.40%	265.38	1.21	235.71	2.04
1979	LDGV	22	2.69%	614.23	3.69	489.07	4.48	175	21.39%	449.31	2.6	323.58	2.9	23	2.81%	148.59	0.39	140.96	1.18
	LDGT	64	6.45%	655.3	3.54	555.73	3.5	238	23.99%	454.97	2.86	342.79	2.64	29	2.92%	161.96	0.33	298.11	2.16
	HDGT	4	1.27%	1400.08	4.1	1085.33	3.27	32	10.19%	980.88	4.39	552.19	3.68	11	3.50%	458.82	0.91	335.63	2.14
1979 Total		90	4.24%	678.36	3.6	562.97	3.73	445	20.95%	490.56	2.86	350.29	2.82	63	2.97%	208.91	0.46	247.29	1.8
1980	LDGV	17	3.17%	725.56	3.17	836.65	4.21	90	16.76%	534.04	2.8	387.31	2.69	11	2.05%	154.79	0.26	174.41	1.48
	LDGT	22	4.22%	570.35	4.01	596.95	3.82	98	18.81%	595.39	2.84	448.82	2.65	16	3.07%	136.73	0.24	169.73	2.86
	HDGT	1	0.68%	1338.3	0.04	151.8	0.16	16	10.88%	1052.57	3.39	877.54	3.11	5	3.40%	244.36	0.88	174.64	2.17
1980 Total		40	3.32%	655.51	3.55	687.69	3.89	204	16.93%	604.18	2.86	455.31	2.7	32	2.66%	159.76	0.35	172.1	2.28
1981	LDGV	16	3.25%	552.43	1.44	406.37	2.47	135	27.38%	247.96	1.24	308.08	2.83	11	2.23%	79.96	0.25	53.55	0.45
	LDGT	23	4.14%	656.38	3.55	686.63	3.96	221	39.75%	342.08	1.49	304.99	2.25	10	1.80%	81.16	0.27	83.52	0.34
	HDGT	8	3.11%	1180.43	4.66	1388.41	3.86	30	11.67%	1119.66	3.03	750.32	2.78	12	4.67%	187.86	1.07	132.43	1.7
1981 Total		47	3.60%	710.19	3.02	710.68	3.44	386	29.56%	369.6	1.52	340.68	2.49	33	2.53%	119.56	0.55	91.31	0.87
1982	LDGV	0	0.00%	0	0	0	0	7	58.33%	197.43	2.73	169.31	2.38	1	8.33%	33.8	0.27	36.1	0.55
	LDGT	0	0.00%	0	0	0	0	1	50.00%	739.9	1.55	398.8	0.29	0	0.00%	0	0	0	0
	HDGT	4	2.68%	765.2	1.61	317.8	2.46	22	14.77%	740.77	2.12	357.17	1.63	6	4.03%	164.12	1.05	115.48	2.3

Vehicle		Failure For Both Exhaust And Visual						Failure For Exhaust Only						Failure For Visual Only					
Year	Type	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg HC 2500 rpm
1982 Total		4	2.45%	765.2	1.61	317.8	2.46	30	18.40%	613.96	2.24	314.72	1.76	7	4.29%	145.5	0.94	104.14	2.05
1983	LDGV	0	0.00%	0	0	0	0	6	42.86%	310.58	1.8	339.98	1.84	0	0.00%	0	0	0	0
	LDGT	1	16.67%	169	2.04	561.4	3.02	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
	HDGT	5	1.92%	1419.82	6.3	450.98	3.5	47	18.08%	721.16	2.77	423.67	1.75	8	3.08%	191.73	1.62	145.43	2.21
1983 Total		6	2.14%	1211.35	5.59	469.38	3.42	53	18.93%	674.68	2.66	414.19	1.76	8	2.86%	191.73	1.62	145.43	2.21
1984	LDGV	0	0.00%	0	0	0	0	4	44.44%	184.45	1.75	147.33	2.21	0	0.00%	0	0	0	0
	LDGT	0	0.00%	0	0	0	0	3	60.00%	275.17	3.02	365.57	5.79	0	0.00%	0	0	0	0
	HDGT	5	1.45%	484.52	4.4	578.12	5.28	39	11.34%	820.92	2.53	485.95	2.07	11	3.20%	199.53	1.04	130.47	1.68
1984 Total		5	1.40%	484.52	4.4	578.12	5.28	46	12.85%	729.98	2.49	448.65	2.33	11	3.07%	199.53	1.04	130.47	1.68
1985	LDGV	0	0.00%	0	0	0	0	6	42.86%	291.5	0.73	240.38	0.65	0	0.00%	0	0	0	0
	LDGT	0	0.00%	0	0	0	0	2	40.00%	502.85	6.03	262	3.39	1	20.00%	59.7	0.38	51.6	0.64
	HDGT	9	1.93%	613.01	3.16	277.57	1.31	55	11.80%	719.16	2.4	430.7	1.42	21	4.51%	294.42	0.91	207.75	1.4
1985 Total		9	1.86%	613.01	3.16	277.57	1.31	63	12.99%	671.56	2.36	407.22	1.41	22	4.54%	283.75	0.89	200.65	1.37
1986	LDGV	0	0.00%	0	0	0	0	5	31.25%	296.74	2.36	295.22	1.84	0	0.00%	0	0	0	0
	LDGT	0	0.00%	0	0	0	0	4	40.00%	256	0.49	212.45	2.16	0	0.00%	0	0	0	0
	HDGT	13	3.53%	896.76	2.17	458.39	2.29	86	23.37%	526.14	2.32	333.47	1.48	9	2.45%	82.91	0.65	117.01	1.85
1986 Total		13	3.30%	896.76	2.17	458.39	2.29	95	24.11%	502.69	2.24	326.36	1.53	9	2.28%	82.91	0.65	117.01	1.85
1987	LDGV	0	0.00%	0	0	0	0	5	20.83%	368.86	2.02	174.72	1.47	0	0.00%	0	0	0	0
	LDGT	0	0.00%	0	0	0	0	9	27.27%	349.47	0.61	293.33	0.67	0	0.00%	0	0	0	0
	HDGT	5	1.35%	465.42	0.83	388.92	0.51	69	18.65%	528.63	1.98	319.56	1.76	4	1.08%	130.33	0.23	417.43	0.26
1987 Total		5	1.17%	465.42	0.83	388.92	0.51	83	19.44%	499.58	1.84	307.99	1.62	4	0.94%	130.33	0.23	417.43	0.26
1988	LDGV	0	0.00%	0	0	0	0	3	21.43%	502.43	1.98	572.53	1.78	0	0.00%	0	0	0	0
	LDGT	0	0.00%	0	0	0	0	13	22.81%	329.36	0.62	216.92	0.68	1	1.75%	54.3	0.12	53.1	1.19
	HDGT	4	0.95%	1018.75	3.88	596.08	4.39	55	13.06%	474.14	2.41	382.08	1.99	9	2.14%	113.82	0.55	68.49	0.64
1988 Total		4	0.81%	1018.75	3.88	596.08	4.39	71	14.43%	448.82	2.06	359.89	1.74	10	2.03%	107.87	0.51	66.95	0.69
1989	LDGV	0	0.00%	0	0	0	0	4	10.53%	273.5	0.88	140.78	0.49	0	0.00%	0	0	0	0
	LDGT	1	1.28%	52.4	0.07	147.6	1.32	22	28.21%	301.72	0.65	248.13	1.04	0	0.00%	0	0	0	0
	HDGT	5	0.57%	590.22	3.7	466.48	2.01	98	11.10%	468.63	2.09	336.54	1.78	16	1.81%	88.19	0.58	128.35	0.47
1989 Total		6	0.60%	500.58	3.09	413.33	1.89	124	12.41%	432.72	1.8	314.54	1.61	16	1.60%	88.19	0.58	128.35	0.47
1990	LDGV	0	0.00%	0	0	0	0	7	16.28%	389.93	0.79	266.1	1.24	0	0.00%	0	0	0	0
	LDGT	0	0.00%	0	0	0	0	28	26.67%	418.82	0.94	282.18	0.65	0	0.00%	0	0	0	0
	HDGT	5	0.78%	356.72	2.95	313.38	0.84	66	10.31%	495.35	2.8	299.52	1.84	10	1.56%	82.33	0.43	110.06	1.33
1990 Total		5	0.63%	356.72	2.95	313.38	0.84	101	12.82%	466.82	2.14	292.39	1.47	10	1.27%	82.33	0.43	110.06	1.33
1991	LDGV	0	0.00%	0	0	0	0	4	7.69%	318.45	0.18	155.13	1.05	1	1.92%	82.6	0.16	61.9	0.47
	LDGT	0	0.00%	0	0	0	0	17	17.53%	362.19	0.45	191.36	0.38	0	0.00%	0	0	0	0
	HDGT	0	0.00%	0	0	0	0	61	8.59%	400.59	2.77	249.56	1.97	7	0.99%	115.44	0.64	76.57	0.5

Vehicle		Failure For Both Exhaust And Visual						Failure For Exhaust Only						Failure For Visual Only					
Year	Type	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm
1991 Total		0	0.00%	0	0	0	0	82	9.55%	388.62	2.17	232.89	1.6	8	0.93%	111.34	0.58	74.74	0.5
1992	LDGV	0	0.00%	0	0	0	0	10	18.18%	322.8	0.99	354.96	1.97	0	0.00%	0	0	0	0
	LDGT	0	0.00%	0	0	0	0	14	17.95%	464.86	1.33	158	0.61	0	0.00%	0	0	0	0
	HDGT	5	0.65%	365.64	1.73	268.68	0.91	83	10.75%	419.21	2.38	285.52	1.96	13	1.68%	94.89	0.47	63.12	0.66
1992 Total		5	0.55%	365.64	1.73	268.68	0.91	107	11.82%	416.17	2.12	275.32	1.78	13	1.44%	94.89	0.47	63.12	0.66
1993	LDGV	0	0.00%	0	0	0	0	3	8.33%	218.6	0.29	153.37	0.99	3	8.33%	37.53	0.12	47.83	0.23
	LDGT	0	0.00%	0	0	0	0	8	16.33%	286.31	0.72	294.53	0.68	0	0.00%	0	0	0	0
	HDGT	6	0.56%	232.7	2.5	98.45	2.01	86	7.98%	539.34	2.91	359.83	2.35	7	0.65%	129.8	0.44	95.57	1.12
1993 Total		6	0.52%	232.7	2.5	98.45	2.01	97	8.34%	508.55	2.65	348.06	2.17	10	0.86%	102.12	0.34	81.25	0.85
1994	LDGV	0	0.00%	0	0	0	0	3	5.36%	99.23	0.75	148.73	1.24	1	1.79%	29.9	0.05	34.1	0.06
	LDGT	1	0.98%	260	0.15	171	0.96	6	5.88%	271.17	0.35	219	0.64	0	0.00%	0	0	0	0
	HDGT	4	0.34%	744.63	1.82	657.2	1.61	129	10.84%	456.32	2.99	313.58	2.81	12	1.01%	90.78	0.71	169.73	1.24
1994 Total		5	0.37%	647.7	1.49	559.96	1.48	138	10.24%	440.51	2.82	305.88	2.68	13	0.96%	86.1	0.66	159.3	1.15
1995	LDGV	1	1.28%	420	0.61	145.9	0.84	3	3.85%	229.53	0.83	287.03	1.66	0	0.00%	0	0	0	0
	LDGT	0	0.00%	0	0	0	0	7	12.96%	239.59	1.16	135.57	1.04	0	0.00%	0	0	0	0
	HDGT	5	0.28%	768.58	4.64	638.74	6.29	172	9.58%	407.32	2.81	275.74	2.82	19	1.06%	70.71	0.34	105.55	0.72
1995 Total		6	0.31%	710.48	3.97	556.6	5.38	182	9.44%	397.94	2.72	270.54	2.73	19	0.99%	70.71	0.34	105.55	0.72
1996	LDGV	0	0.00%	0	0	0	0	1	1.72%	142.1	4.62	94.6	3.43	0	0.00%	0	0	0	0
	LDGT	0	0.00%	0	0	0	0	1	2.22%	234.3	0.53	84.2	0.49	0	0.00%	0	0	0	0
	HDGT	3	0.21%	849.77	2.35	671.63	4.06	79	5.42%	402.2	2.36	252.39	1.97	19	1.30%	74.53	0.4	65.06	0.4
1996 Total		3	0.19%	849.77	2.35	671.63	4.06	81	5.19%	396.92	2.36	248.36	1.97	19	1.22%	74.53	0.4	65.06	0.4
1997	LDGV	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	1	1.61%	118.9	0.01	34.7	0.29
	LDGT	0	0.00%	0	0	0	0	4	3.10%	134.13	0.31	195.9	0.9	0	0.00%	0	0	0	0
	HDGT	3	0.13%	283.07	1.52	68.17	0.58	77	3.28%	538.9	1.95	367.36	1.1	10	0.43%	66.53	0.35	54.85	0.3
1997 Total		3	0.12%	283.07	1.52	68.17	0.58	81	3.19%	518.91	1.87	358.9	1.09	11	0.43%	71.29	0.32	53.02	0.3
1998	LDGV	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
	LDGT	0	0.00%	0	0	0	0	10	6.37%	310.87	0.85	171.5	1.04	1	0.64%	50.8	0.35	20.4	0.11
	HDGT	0	0.00%	0	0	0	0	88	6.75%	637.09	1.58	294.03	1.04	7	0.54%	85.34	0.56	343.93	1.15
1998 Total		0	0.00%	0	0	0	0	98	6.42%	603.8	1.5	281.52	1.04	8	0.52%	81.03	0.53	303.49	1.02
1999	LDGV	0	0.00%	0	0	0	0	2	1.29%	324.15	0.8	207.5	0.43	0	0.00%	0	0	0	0
	LDGT	0	0.00%	0	0	0	0	34	2.25%	333.52	1.36	293.79	0.93	6	0.40%	94	0.4	48.32	0.32
	HDGT	1	0.03%	798	0.43	348.8	0.88	109	3.44%	595.09	1.41	304.31	0.96	9	0.28%	67.88	0.17	83.54	0.42
1999 Total		1	0.02%	798	0.43	348.8	0.88	145	3.00%	530.02	1.39	300.51	0.95	15	0.31%	78.33	0.26	69.45	0.38
2000	LDGV	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	1	0.84%	3.4	0.01	6	0
	LDGT	0	0.00%	0	0	0	0	32	1.74%	295.08	1.59	295.56	1.03	9	0.49%	55.17	0.2	45.77	0.21
	HDGT	3	0.12%	973.2	1.54	752.1	0.7	85	3.29%	511.52	1.6	329.34	1.44	11	0.43%	95.21	0.24	80.61	0.25

Vehicle		Failure For Both Exhaust And Visual						Failure For Exhaust Only						Failure For Visual Only					
Year	Type	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg HC 2500 rpm
2000 Total		3	0.07%	973.2	1.54	752.1	0.7	117	2.58%	452.32	1.59	320.1	1.33	21	0.46%	73.68	0.21	62.12	0.22
2001	LDGV	0	0.00%	0	0	0	0	2	0.82%	279.1	3.13	201.9	2.7	0	0.00%	0	0	0	0
	LDGT	0	0.00%	0	0	0	0	70	2.26%	123.39	1.2	126.35	0.96	9	0.29%	53.8	0.14	38.12	0.19
	HDGT	4	0.12%	504.2	1.54	177.78	0.48	34	0.99%	487.32	1.94	296.79	1.98	22	0.64%	66.8	0.21	50.75	0.36
2001 Total		4	0.06%	504.2	1.54	177.78	0.48	106	1.56%	243.06	1.47	182.45	1.32	31	0.46%	63.02	0.19	47.08	0.31
2002	LDGV	0	0.00%	0	0	0	0	3	1.35%	82.93	0.48	78.3	1.41	2	0.90%	5.9	0.13	9.3	0.02
	LDGT	1	0.05%	153	0.57	231.8	2.11	103	4.69%	145.59	1.4	125.2	1.03	5	0.23%	85.18	0.38	42.22	0.27
	HDGT	4	0.20%	670.45	0.68	525.68	0.77	30	1.52%	531.91	1.62	410.46	1.68	13	0.66%	105.15	0.27	48.89	0.28
2002 Total		5	0.11%	566.96	0.66	466.9	1.03	136	3.10%	229.42	1.43	187.09	1.18	20	0.46%	90.23	0.29	43.27	0.25
2003	LDGV	2	0.53%	323.25	4.34	199.15	3.72	1	0.27%	151	0.44	133	1.4	2	0.53%	91.9	0.23	70.45	0.69
	LDGT	0	0.00%	0	0	0	0	53	1.83%	153.14	1.25	110.2	0.91	5	0.17%	67.08	0.2	44.86	0.21
	HDGT	0	0.00%	0	0	0	0	32	1.08%	354.96	2.2	200	1.46	12	0.41%	75.12	0.34	46.9	0.32
2003 Total		2	0.03%	323.25	4.34	199.15	3.72	86	1.38%	228.21	1.6	143.88	1.12	19	0.30%	74.77	0.29	48.84	0.33
2004	LDGV	2	0.68%	171.25	0.9	196	1.29	8	2.71%	116.26	0.51	141.76	1.44	0	0.00%	0	0	0	0
	LDGT	0	0.00%	0	0	0	0	22	1.15%	211.85	1.23	155.13	0.76	2	0.10%	7.9	0.03	9.15	0.04
	HDGT	0	0.00%	0	0	0	0	5	0.26%	497.7	2.21	353.56	3.59	6	0.32%	38.77	0.1	27.92	0.13
2004 Total		2	0.05%	171.25	0.9	196	1.29	35	0.85%	230.84	1.21	180.42	1.32	8	0.19%	31.05	0.08	23.22	0.11
2005	LDGV	0	0.00%	0	0	0	0	10	2.47%	203.47	0.34	186.28	1.86	2	0.49%	34.25	0.01	41.75	0.01
	LDGT	0	0.00%	0	0	0	0	9	0.36%	128.18	0.56	129.79	1.02	3	0.12%	6.1	0.02	8.17	0.03
	HDGT	0	0.00%	0	0	0	0	7	0.28%	892.23	1.94	237.17	1.6	8	0.32%	32.04	0.15	20.71	0.11
2005 Total		0	0.00%	0	0	0	0	26	0.48%	362.84	0.85	180.43	1.5	13	0.24%	26.39	0.1	21.05	0.08
2006	LDGV	2	0.49%	429.6	3.65	409.6	3.55	3	0.74%	169.67	0.31	303.13	4.22	0	0.00%	0	0	0	0
	LDGT	0	0.00%	0	0	0	0	1	0.07%	157.7	1.61	94.6	2.34	2	0.14%	13.05	0.03	6.1	0.02
	HDGT	0	0.00%	0	0	0	0	7	0.34%	903.86	1.27	692.59	0.53	4	0.20%	6.93	0.02	5.95	0.02
2006 Total		2	0.05%	429.6	3.65	409.6	3.55	11	0.28%	635.79	1.04	532.01	1.7	6	0.15%	8.97	0.03	6	0.02
2007	LDGV	0	0.00%	0	0	0	0	2	0.38%	60.7	0.1	71.75	1.44	4	0.76%	83.65	0.16	94.85	0.3
	LDGT	0	0.00%	0	0	0	0	2	0.07%	26.95	0.1	113	4.06	4	0.14%	61.28	0.28	56.23	0.36
	HDGT	0	0.00%	0	0	0	0	6	0.27%	835.2	2.14	1075.05	3.04	2	0.09%	29.75	0.53	10.6	0.07
2007 Total		0	0.00%	0	0	0	0	10	0.18%	518.65	1.32	681.98	2.92	10	0.18%	63.92	0.28	62.55	0.28
2008	LDGV	1	0.17%	141.9	1.02	482.4	1	10	1.67%	133.52	1.33	145.35	3.13	2	0.33%	75.65	0.28	61.75	0.39
	LDGT	0	0.00%	0	0	0	0	1	0.07%	203.5	2.36	383.8	5.29	1	0.07%	63.8	0.06	74.4	0.65
	HDGT	0	0.00%	0	0	0	0	4	0.29%	831.08	1.33	872.3	0.69	0	0.00%	0	0	0	0
2008 Total		1	0.03%	141.9	1.02	482.4	1	15	0.43%	324.2	1.4	355.1	2.62	3	0.09%	71.7	0.21	65.97	0.47
2009	LDGV	0	0.00%	0	0	0	0	1	0.18%	3.6	0	31.5	1.41	1	0.18%	1	0	3.2	0.02
	LDGT	0	0.00%	0	0	0	0	2	0.13%	214.2	0.22	221.95	2.42	0	0.00%	0	0	0	0
	HDGT	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	3	0.21%	35.4	0.11	33.3	0.27

Vehicle		Failure For Both Exhaust And Visual						Failure For Exhaust Only						Failure For Visual Only					
Year	Type	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg HC 2500 rpm
2009 Total		0	0.00%	0	0	0	0	3	0.08%	144	0.14	158.47	2.08	4	0.11%	26.8	0.09	25.78	0.21
2010	LDGV	0	0.00%	0	0	0	0	2	2.47%	84.35	1.58	75.4	2.18	1	1.23%	3.4	0.01	6.2	0.01
	LDGT	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
	HDGT	0	0.00%	0	0	0	0	1	0.31%	412	0	135	0	1	0.31%	43.8	0.05	30.7	0.09
2010 Total		0	0.00%	0	0	0	0	3	0.36%	193.57	1.05	95.27	1.45	2	0.24%	23.6	0.03	18.45	0.05
2011	LDGV	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
	LDGT	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
	HDGT	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	1	0.55%	0.6	0.01	2.2	0.01
2011 Total		0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	1	0.26%	0.6	0.01	2.2	0.01
2012	LDGV	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
	LDGT	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
	HDGT	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
2012 Total		0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
2013	LDGV	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
	LDGT	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
	HDGT	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
2013 Total		0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
2014	LDGT	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
	HDGT	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
2014 Total		0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
Grand Total		411	0.49%	747.87	3.38	583.2	3.22	5,037	6.01%	571.5	2.88	408.32	2.53	631	0.75%	150.07	0.6	161.13	1.24

Summary by Vehicle Type (V1.02)

Vehicle Type	Failure For Both Exhaust And Visual						Failure For Exhaust Only						Failure For Visual Only					
	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg HC 2500 rpm
LDGV	125	1.30%	718.45	3.21	573.54	3.35	1,348	14.06%	573.27	3.31	453.97	3.25	123	1.28%	147.34	0.5	176.82	1.53
LDGT	163	0.57%	668.81	3.67	567.73	3.54	1,483	5.17%	431.29	2.37	328.59	2.2	138	0.48%	116.93	0.35	149.03	1.34
HDGT	123	0.27%	882.52	3.18	613.51	2.67	2,206	4.84%	664.68	2.96	434.03	2.32	370	0.81%	163.34	0.73	160.42	1.11
Grand Total	411	0.49%	747.87	3.38	583.2	3.22	5,037	6.01%	571.5	2.88	408.32	2.53	631	0.75%	150.07	0.6	161.13	1.24

Appendix M

Idle Initial Exhaust Failure Report

Idle Initial Exhaust Failure Report (V1.01)

Vehicle		Overall Exhaust Failures						HC Failures						CO Failures					
Year	Type	Total	Total%	Avg HC	Avg CO	Avg HC	Avg CO	Total	Total %	Avg HC	Avg CO	Avg HC	Avg CO	Total	Total%	Avg HC	Avg CO	Avg HC	Avg CO
1974	LDGV	409	45.04%	1041.71	5.6	774.02	4.83	155	37.90%	1613.32	4.99	1157.99	4.94	355	86.80%	792.13	5.87	606.37	4.79
	LDGT	207	47.81%	865.94	4.62	575.73	3.78	70	33.82%	1484.94	3.1	923.39	3	165	79.71%	603.33	5.27	428.23	4.11
	HDGT	88	42.31%	1216.98	5.32	850.3	4.3	47	53.41%	1654.08	2.98	1166.13	3.06	52	59.09%	821.91	7.44	564.84	5.41
1974 Total		704	45.45%	1013.33	5.3	727.75	4.48	272	38.64%	1587.33	4.16	1099.02	4.12	572	81.25%	740.38	5.84	551.21	4.65
1975	LDGV	19	95.00%	515.91	3.08	422.17	2.34	6	31.58%	892.85	1.88	824.88	2.2	15	78.95%	365.14	3.56	261.09	2.39
	LDGT	15	100.00%	754.94	3.58	846.48	3.69	7	46.67%	1210.93	3.12	1447.31	2.32	10	66.67%	435.75	3.9	425.9	4.66
	HDGT	24	64.86%	1053.54	6.2	774.21	3.68	11	45.83%	1526.36	4.66	1051.97	2.89	17	70.83%	747.59	7.19	594.48	4.2
1975 Total		58	80.56%	805.57	4.53	680.81	3.26	24	41.38%	1275.98	3.52	1110.51	2.55	42	72.41%	536.75	5.11	435.27	3.66
1976	LDGV	128	64.65%	837.54	4.3	615.01	3.86	47	36.72%	1403	3.84	1042.67	3.92	105	82.03%	584.42	4.51	423.58	3.83
	LDGT	84	72.41%	777.87	4.24	553.28	3.1	36	42.86%	1195.12	3.81	763.67	3.02	70	83.33%	563.29	4.46	445.09	3.14
	HDGT	107	38.77%	1175.03	5.5	710.3	3.99	63	58.88%	1478.71	3.82	982.4	3.67	66	61.68%	885.16	7.11	450.56	4.3
1976 Total		319	54.07%	933.69	4.69	629.87	3.69	146	45.77%	1384.41	3.83	947.87	3.59	241	75.55%	660.64	5.21	437.22	3.76
1977	LDGV	145	54.92%	608	3.27	448.07	2.78	65	44.83%	931.13	2.62	660.33	2.31	111	76.55%	418.78	3.65	323.77	3.06
	LDGT	76	73.79%	618.32	4.04	461.02	3.11	37	48.68%	847.62	3.66	601.75	3	59	77.63%	474.52	4.28	372.76	3.18
	HDGT	125	32.13%	1094.85	5.82	732.69	3.79	58	46.40%	1604.77	3.81	1217.39	3.3	85	68.00%	746.91	7.2	401.95	4.13
1977 Total		346	45.77%	778.15	4.33	549.14	3.2	160	46.24%	1156.01	3.29	848.72	2.83	255	73.70%	541.05	4.98	361.17	3.44
1978	LDGV	194	50.92%	592.54	3.22	462.58	3.19	86	44.33%	875.84	2.59	667.28	3	149	76.80%	429.02	3.58	344.42	3.29
	LDGT	115	71.88%	553.68	3.42	389.12	3.02	55	47.83%	819.69	3	567.69	2.74	90	78.26%	391.11	3.68	279.98	3.2
	HDGT	169	32.01%	1268.97	4.99	851.46	3.91	105	62.13%	1578.36	3.19	1038.59	3	94	55.62%	923.38	7	642.42	4.91
1978 Total		478	44.71%	815.29	3.88	577.84	3.39	246	51.46%	1163.14	2.94	803.5	2.94	333	69.67%	558.32	4.57	411.13	3.73
1979	LDGV	197	51.44%	539.66	3.09	380.34	3.33	94	47.72%	759.44	2.53	521.35	3.12	150	76.14%	401.94	3.44	291.97	3.46
	LDGT	302	59.10%	582.05	3.47	446.32	3.13	139	46.03%	848.28	2.82	613.01	2.78	227	75.17%	419.03	3.87	344.25	3.35
	HDGT	36	66.67%	1099.54	4.85	707.59	4.03	21	58.33%	1473.56	3.52	912.85	3.23	24	66.67%	772.28	6.01	527.98	4.73
1979 Total		535	56.43%	601.81	3.42	439.69	3.27	254	47.48%	867.1	2.77	603.88	2.94	401	74.95%	433.78	3.84	335.69	3.47
1980	LDGV	107	55.44%	642.19	3.35	539.36	3.41	60	56.07%	839.14	2.68	683.72	3.32	74	69.16%	482.49	3.89	422.31	3.49
	LDGT	120	68.97%	670.52	3.57	508.82	3.04	75	62.50%	820.39	2.76	611.48	2.56	82	68.33%	533.44	4.32	414.93	3.48
	HDGT	17	65.38%	1064.28	3.74	748.56	3.11	12	70.59%	1314.32	2.25	1073.98	2.33	8	47.06%	689.21	5.96	260.44	4.28
1980 Total		244	62.09%	683.63	3.49	537.4	3.21	147	60.25%	868.36	2.68	678.72	2.85	164	67.21%	518.05	4.21	410.72	3.52
1981	LDGV	96	59.26%	472.83	2.56	382.96	3.16	65	67.71%	506.02	2.01	389.53	2.85	49	51.04%	428.81	3.29	374.24	3.56
	LDGT	191	78.28%	576.12	3.03	452.32	2.79	134	70.16%	589.94	2.27	460.7	2.4	88	46.07%	555.07	4.19	439.56	3.39
	HDGT	38	67.86%	1262.06	4.11	960.28	3.42	27	71.05%	1485.34	3.05	1101.64	2.56	20	52.63%	960.65	5.54	769.44	4.59
1981 Total		325	70.35%	629.55	3.02	494.01	2.98	226	69.54%	672.78	2.29	516.8	2.55	157	48.31%	567.33	4.08	461.2	3.6
1982	LDGV	6	100.00%	244.26	3.42	171.36	2.21	3	50.00%	294.8	3.01	220.6	1.81	5	83.33%	213.94	3.67	141.82	2.45
	LDGT	1	100.00%	739.9	1.55	398.8	0.29	1	100.00%	739.9	1.55	398.8	0.29	1	100.00%	739.9	1.55	398.8	0.29
	HDGT	26	70.27%	780.68	2.2	376.16	1.82	18	69.23%	985.23	1.06	439.28	1.4	10	38.46%	412.49	4.25	262.56	2.57
1982 Total		33	75.00%	665.61	2.42	334.24	1.82	22	66.67%	879.93	1.35	407.62	1.41	16	48.48%	370.91	3.9	233.34	2.39
1983	LDGV	4	100.00%	501.15	2.23	554.9	1.82	2	50.00%	677.05	2.32	805.5	2.66	4	100.00%	413.2	2.19	429.6	1.41
	LDGT	1	100.00%	169	2.04	561.4	3.02	0	0.00%	0	0	0	0	1	100.00%	169	2.04	561.4	3.02
	HDGT	52	59.77%	893.43	3.59	469.23	2.14	36	69.23%	1020.55	2.45	572.41	1.57	29	55.77%	735.63	5	341.14	2.86

Vehicle		Overall Exhaust Failures						HC Failures						CO Failures					
Year	Type	Total	Total%	Avg HC	Avg CO	Avg HC	Avg CO	Total	Total %	Avg HC	Avg CO	Avg HC	Avg CO	Total	Total%	Avg HC	Avg CO	Avg HC	Avg CO
1983 Total		57	61.96%	850.68	3.45	477.65	2.13	38	66.67%	1002.47	2.44	584.67	1.62	34	59.65%	681.03	4.58	358.03	2.69
1984	LDGV	3	100.00%	249.76	2.55	185.94	2.7	2	66.67%	268.55	2.89	198.95	3.15	3	100.00%	237.23	2.33	177.27	2.4
	LDGT	1	100.00%	560.4	8.29	609.6	9.82	1	100.00%	560.4	8.29	609.6	9.82	1	100.00%	560.4	8.29	609.6	9.82
	HDGT	44	50.00%	874.44	3.24	582.67	2.94	30	68.18%	1030.32	2.16	666.81	2.44	23	52.27%	671.1	4.64	472.92	3.59
1984 Total		48	52.17%	811.91	3.35	550.5	3.15	33	68.75%	969.92	2.39	636.72	2.7	27	56.25%	618.8	4.52	445.13	3.69
1985	LDGV	6	85.71%	291.5	0.73	240.38	0.65	5	83.33%	326.76	0.55	271.02	0.59	1	16.67%	115.2	1.62	87.2	0.96
	LDGT	2	100.00%	502.85	6.03	262	3.39	2	100.00%	502.85	6.03	262	3.39	2	100.00%	502.85	6.03	262	3.39
	HDGT	64	38.32%	741.05	3.03	424.3	1.67	47	73.44%	867.16	1.9	497.47	1.23	30	46.88%	543.47	4.8	309.67	2.37
1985 Total		72	40.91%	699.09	3.01	404.15	1.68	54	75.00%	803.63	1.93	467.78	1.25	33	45.83%	528.03	4.78	300.04	2.39
1986	LDGV	3	100.00%	607.38	5	397.7	3.18	1	33.33%	1072.6	8.23	724.9	5.21	3	100.00%	452.3	3.92	288.63	2.5
	LDGT	2	100.00%	407.8	0.64	369.05	1.26	2	100.00%	407.8	0.64	369.05	1.26	0	0.00%	0	0	0	0
	HDGT	99	52.66%	621.48	2.84	378.36	1.79	77	77.78%	688.32	1.97	424.92	1.51	50	50.51%	518.56	4.16	306.66	2.23
1986 Total		104	53.89%	617.85	2.87	378.8	1.83	80	76.92%	686.11	2.02	427.27	1.55	53	50.96%	514.81	4.15	305.64	2.24
1987	LDGV	5	100.00%	451.41	2.45	190.51	1.84	3	60.00%	516.67	2.43	247.17	1.94	4	80.00%	402.48	2.46	148.03	1.77
	LDGT	8	80.00%	354.89	0.68	194.1	0.61	8	100.00%	369.75	0.6	195.99	0.61	1	12.50%	236	1.33	179	0.55
	HDGT	74	53.24%	577.5	2.43	331.76	2.06	58	78.38%	628.27	1.75	380.1	1.67	31	41.89%	482.53	3.71	241.33	2.81
1987 Total		87	56.49%	550.02	2.28	310.55	1.92	69	79.31%	593.44	1.65	352.98	1.56	36	41.38%	466.79	3.51	229.23	2.63
1988	LDGV	3	100.00%	502.43	1.98	572.53	1.78	2	66.67%	670.45	1.08	801.1	0.44	1	33.33%	166.4	3.78	115.4	4.46
	LDGT	12	80.00%	355.75	0.82	218.87	0.54	12	100.00%	352.85	0.66	223.26	0.56	1	8.33%	390.5	2.71	166.2	0.33
	HDGT	59	45.38%	586.88	2.89	459.22	2.52	40	67.80%	660.18	2.09	520.48	1.98	32	54.24%	495.25	3.88	382.63	3.18
1988 Total		74	50.00%	549.85	2.55	427.57	2.2	54	72.97%	592.26	1.74	464.83	1.61	34	45.95%	482.5	3.84	368.41	3.13
1989	LDGV	4	100.00%	273.5	0.88	140.78	0.49	3	75.00%	328	0.46	182.67	0.64	1	25.00%	110	2.13	15.1	0.03
	LDGT	16	80.00%	363.12	0.81	241.01	0.53	16	100.00%	368.3	0.71	251.49	0.55	1	6.25%	280.2	2.36	73.2	0.27
	HDGT	103	28.22%	505.13	2.42	352.74	1.91	70	67.96%	601.25	1.75	447.11	1.58	60	58.25%	393.01	3.2	242.65	2.3
1989 Total		123	31.62%	483.01	2.2	334.55	1.72	89	72.36%	550.16	1.52	403.03	1.36	62	50.41%	386.62	3.17	236.25	2.23
1990	LDGV	5	100.00%	490.16	0.97	298.88	1.37	3	60.00%	735.57	0.66	396.3	1.5	2	40.00%	122.05	1.45	152.75	1.18
	LDGT	25	56.82%	585.15	1.56	264.25	0.66	22	88.00%	507	1.06	251.14	0.58	3	12.00%	1158.3	5.17	360.37	1.18
	HDGT	71	36.60%	549.59	3.25	332.65	2.1	48	67.61%	624.94	2.7	390.8	1.97	47	66.20%	472.63	3.8	273.26	2.22
1990 Total		101	41.56%	554.32	2.82	317.62	1.78	73	72.28%	593.94	2.12	348.94	1.53	52	51.49%	498.71	3.79	273.65	2.12
1991	LDGV	3	100.00%	421.6	0.23	178.8	0.67	3	100.00%	421.6	0.23	178.8	0.67	0	0.00%	0	0	0	0
	LDGT	16	72.73%	383.02	0.48	185.83	0.37	16	100.00%	383.02	0.48	185.83	0.37	0	0.00%	0	0	0	0
	HDGT	61	29.90%	421.99	3.2	251.14	2.24	39	63.93%	523.43	2.65	335.31	1.98	39	63.93%	320.55	3.75	166.96	2.5
1991 Total		80	34.93%	415.55	2.66	238.13	1.88	58	72.50%	479.43	1.93	285.98	1.47	39	48.75%	320.55	3.75	166.96	2.5
1992	LDGV	6	100.00%	537.46	1.64	494.29	2.5	5	83.33%	519.64	1.28	468.48	2.11	4	66.67%	559.73	2.08	526.55	3
	LDGT	12	80.00%	641.67	2.01	146.8	0.59	12	100.00%	513.58	1.51	137.5	0.59	3	25.00%	1154	4.01	184	0.62
	HDGT	88	30.34%	465.19	2.65	323.64	2.17	51	57.95%	583.18	2.05	414.21	2.04	57	64.77%	359.62	3.19	242.59	2.28
1992 Total		106	34.08%	490.17	2.51	315.18	2.01	68	64.15%	566.23	1.9	369.37	1.79	64	60.38%	409.37	3.16	257.59	2.25
1993	LDGV	2	100.00%	289.7	0.35	179.05	0.55	2	100.00%	289.7	0.35	179.05	0.55	0	0.00%	0	0	0	0
	LDGT	7	63.64%	301.94	0.82	196.3	0.74	7	100.00%	301.94	0.82	196.3	0.74	0	0.00%	0	0	0	0
	HDGT	92	25.48%	604.36	3.42	399.25	2.8	60	65.22%	698.2	2.88	472.71	2.47	60	65.22%	510.52	3.97	325.8	3.13

Vehicle		Overall Exhaust Failures						HC Failures						CO Failures					
Year	Type	Total	Total%	Avg HC	Avg CO	Avg HC	Avg CO	Total	Total %	Avg HC	Avg CO	Avg HC	Avg CO	Total	Total%	Avg HC	Avg CO	Avg HC	Avg CO
1993 Total		101	27.01%	583.07	3.23	384.82	2.65	69	68.32%	646.16	2.6	436.15	2.24	60	59.41%	510.52	3.97	325.8	3.13
1994	LDGV	1	100.00%	178.5	1.33	167.8	1.32	0	0.00%	0	0	0	0	1	100.00%	178.5	1.33	167.8	1.32
	LDGT	6	66.67%	347.8	0.4	166.8	0.6	5	83.33%	347.8	0.4	166.8	0.6	0	0.00%	0	0	0	0
	HDGT	133	26.76%	515.36	3.43	356.61	3.15	87	65.41%	607.07	3.07	426.7	2.87	93	69.92%	429.57	3.78	291.04	3.42
1994 Total		140	27.61%	509.05	3.34	350.49	3.07	92	65.71%	592.98	2.92	412.57	2.74	94	67.14%	426.9	3.75	289.73	3.4
1995	LDGV	3	75.00%	304.9	0.85	200.47	0.7	2	66.67%	356.6	0.59	207.7	0.7	1	33.33%	201.5	1.37	186	0.7
	LDGT	7	100.00%	262.05	1.31	118.85	0.89	5	71.43%	279.34	0.57	113.94	0.59	1	14.29%	175.6	5.02	143.4	2.42
	HDGT	177	18.55%	451.98	3.29	301.34	3.3	102	57.63%	570.31	2.76	377.03	2.88	122	68.93%	353.06	3.72	238.06	3.65
1995 Total		187	19.38%	445.2	3.2	295.35	3.2	109	58.29%	553.04	2.62	361.85	2.74	124	66.31%	350.41	3.72	236.88	3.61
1996	LDGV	1	100.00%	142.1	4.62	94.6	3.43	0	0.00%	0	0	0	0	1	100.00%	142.1	4.62	94.6	3.43
	LDGT	1	100.00%	234.3	0.53	84.2	0.49	1	100.00%	234.3	0.53	84.2	0.49	0	0.00%	0	0	0	0
	HDGT	82	19.57%	440.53	2.67	282.31	2.5	49	59.76%	569.35	2.01	358.94	2.26	49	59.76%	311.72	3.34	205.69	2.74
1996 Total		84	19.95%	435.49	2.67	278.45	2.49	50	59.52%	562.65	1.98	353.44	2.22	50	59.52%	308.32	3.37	203.46	2.75
1997	LDGV	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
	LDGT	1	50.00%	231.8	0.66	140.2	0.55	1	100.00%	231.8	0.66	140.2	0.55	0	0.00%	0	0	0	0
	HDGT	80	11.59%	586.18	2.31	401.95	1.34	60	75.00%	644.86	1.61	450.24	1.18	34	42.50%	482.63	3.53	316.74	1.62
1997 Total		81	11.71%	582.45	2.29	399.2	1.33	61	75.31%	638.08	1.6	445.16	1.17	34	41.98%	482.63	3.53	316.74	1.62
1998	LDGV	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
	LDGT	7	53.85%	405.83	1.48	149.73	1.34	7	100.00%	401.6	1.08	145.41	1.02	1	14.29%	435.4	4.31	179.9	3.58
	HDGT	88	22.92%	699.11	1.97	347.13	1.29	85	96.59%	653.12	1.54	293.8	0.98	25	28.41%	855.5	3.44	528.48	2.33
1998 Total		95	23.93%	679.23	1.93	333.75	1.29	92	96.84%	633.98	1.5	282.51	0.99	26	27.37%	839.34	3.47	515.08	2.37
1999	LDGV	2	66.67%	324.15	0.8	207.5	0.43	2	100.00%	324.15	0.8	207.5	0.43	0	0.00%	0	0	0	0
	LDGT	31	18.79%	394.95	1.86	343.68	0.86	26	83.87%	401.65	1.48	297.84	0.7	14	45.16%	382.5	2.56	428.8	1.15
	HDGT	110	10.70%	626.53	1.7	312.48	1.12	106	96.36%	611.73	1.33	311.25	0.86	21	19.09%	701.23	3.57	318.69	2.43
1999 Total		143	11.96%	568.14	1.73	318.62	1.05	134	93.71%	566.68	1.35	307.1	0.82	35	24.48%	573.74	3.17	362.73	1.92
2000	LDGV	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
	LDGT	24	19.35%	447.91	2.55	384.07	1.49	14	58.33%	536.35	2.36	500.79	1.64	16	66.67%	370.52	2.72	281.94	1.35
	HDGT	88	11.46%	555.46	1.94	363.64	1.66	83	94.32%	545.13	1.44	346.75	1.1	20	22.73%	598.34	4.03	433.7	3.96
2000 Total		112	12.56%	531.2	2.08	368.25	1.62	97	86.61%	543.86	1.57	368.99	1.18	36	32.14%	497.08	3.45	366.25	2.8
2001	LDGV	2	66.67%	278.77	4.01	188.97	3.44	2	100.00%	279.1	3.13	201.9	2.7	1	50.00%	278.1	5.76	163.1	4.94
	LDGT	48	17.14%	169.93	1.81	103.04	0.42	10	20.83%	302	2.02	266.21	0.71	44	91.67%	139.91	1.76	65.96	0.36
	HDGT	38	7.72%	512.22	2.29	307.34	2.18	34	89.47%	523.88	1.81	297.92	1.48	14	36.84%	483.89	3.45	330.22	3.88
2001 Total		88	11.35%	329.51	2.09	198.89	1.31	46	52.27%	465	1.92	286.85	1.36	59	67.05%	223.88	2.23	130.31	1.27
2002	LDGV	1	100.00%	213.9	1.4	104.5	1.42	0	0.00%	0	0	0	0	1	100.00%	213.9	1.4	104.5	1.42
	LDGT	77	15.59%	203.24	1.98	121.99	0.61	15	19.48%	376.27	1.92	252.09	0.92	64	83.12%	162.69	1.99	91.5	0.54
	HDGT	34	12.98%	559.7	2.04	444.07	2.19	32	94.12%	570.48	1.44	435.98	1.56	7	20.59%	510.41	4.81	481.07	5.07
2002 Total		112	14.80%	320.15	2	227.4	1.13	47	41.96%	508.5	1.59	377.29	1.36	72	64.29%	197.21	2.26	129.55	0.99
2003	LDGV	2	50.00%	323.25	4.34	199.15	3.72	2	100.00%	323.25	4.34	199.15	3.72	2	100.00%	323.25	4.34	199.15	3.72
	LDGT	35	11.40%	202.73	1.87	86.22	0.34	7	20.00%	433.09	1.69	197.23	0.53	31	88.57%	150.71	1.92	61.15	0.3
	HDGT	32	11.00%	375.82	2.3	202.58	1.49	16	50.00%	495.98	1.5	311.48	1.12	20	62.50%	279.7	2.94	115.46	1.78

Vehicle		Overall Exhaust Failures						HC Failures						CO Failures					
Year	Type	Total	Total%	Avg HC	Avg CO	Avg HC	Avg CO	Total	Total %	Avg HC	Avg CO	Avg HC	Avg CO	Total	Total%	Avg HC	Avg CO	Avg HC	Avg CO
2003 Total		69	11.46%	288.8	2.2	145.72	1.04	25	36.23%	464.55	1.78	270.5	1.16	53	76.81%	205.89	2.39	86.85	0.98
2004	LDGV	5	38.46%	199.06	0.83	141.58	0.98	4	80.00%	239.6	0.55	171.88	0.79	1	20.00%	36.9	1.94	20.4	1.71
	LDGT	15	12.61%	356.76	1.6	152.45	0.52	4	26.67%	623.05	1	361.08	0.78	13	86.67%	274.83	1.79	88.25	0.44
	HDGT	5	11.11%	527.53	2.65	337.83	4.51	3	60.00%	747.43	1.95	558.4	5.27	3	60.00%	307.63	3.34	117.27	3.74
2004 Total		25	14.12%	365.2	1.69	190.23	1.46	11	44.00%	517.54	1.1	346.09	2.01	17	68.00%	266.62	2.07	89.38	1.1
2005	LDGV	6	33.33%	263.27	0.33	169.33	0.88	6	100.00%	263.27	0.33	169.33	0.88	0	0.00%	0	0	0	0
	LDGT	4	12.12%	254.66	1.13	238.06	1.12	3	75.00%	302.2	0.74	212.13	1	2	50.00%	183.35	1.72	276.95	1.31
	HDGT	7	9.09%	856.37	2.33	277.83	1.95	7	100.00%	892.23	1.94	237.17	1.6	3	42.86%	772.7	3.24	372.7	2.77
2005 Total		17	13.28%	543.65	1.47	237.36	1.45	16	94.12%	545.74	1.11	207.04	1.22	5	29.41%	536.96	2.63	334.4	2.19
2006	LDGV	2	40.00%	637.53	4.6	602.57	5.71	2	100.00%	549.35	3.56	531.35	5.63	1	50.00%	813.9	6.69	745	5.86
	LDGT	1	33.33%	157.7	1.61	94.6	2.34	0	0.00%	0	0	0	0	1	100.00%	157.7	1.61	94.6	2.34
	HDGT	7	11.67%	873.89	1.5	674.6	0.65	5	71.43%	1239.94	0.91	955.14	0.67	3	42.86%	263.8	2.48	207.03	0.61
2006 Total		10	14.71%	755.12	2.28	608.26	2.05	7	70.00%	1042.63	1.67	834.06	2.09	5	50.00%	352.6	3.15	292.14	2
2007	LDGV	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
	LDGT	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
	HDGT	6	10.53%	745.82	2.76	1108.11	3.97	6	100.00%	835.2	2.14	1075.05	3.04	3	50.00%	567.07	4.01	1174.23	5.84
2007 Total		6	10.53%	745.82	2.76	1108.11	3.97	6	100.00%	835.2	2.14	1075.05	3.04	3	50.00%	567.07	4.01	1174.23	5.84
2008	LDGV	3	42.86%	409.22	4.73	282	4.68	2	66.67%	467.35	5.61	319.95	5.61	3	100.00%	370.47	4.15	256.7	4.06
	LDGT	1	12.50%	203.5	2.36	383.8	5.29	0	0.00%	0	0	0	0	1	100.00%	203.5	2.36	383.8	5.29
	HDGT	4	23.53%	1064.86	1.56	1097.84	0.75	3	75.00%	1099.1	1.07	1157.23	0.61	2	50.00%	1013.5	2.3	1008.75	0.95
2008 Total		8	25.00%	688.54	3.07	662.09	2.95	5	62.50%	846.4	2.88	822.32	2.61	6	75.00%	556.98	3.23	528.57	3.23
2009	LDGV	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
	LDGT	1	33.33%	331.8	0.2	373.5	0.28	1	100.00%	331.8	0.2	373.5	0.28	0	0.00%	0	0	0	0
	HDGT	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
2009 Total		1	33.33%	331.8	0.2	373.5	0.28	1	100.00%	331.8	0.2	373.5	0.28	0	0.00%	0	0	0	0
2010	LDGV	1	100.00%	166.7	3.14	144.8	3.06	0	0.00%	0	0	0	0	1	100.00%	166.7	3.14	144.8	3.06
	LDGT	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
	HDGT	1	9.09%	412	0	135	0	1	100.00%	412	0	135	0	0	0.00%	0	0	0	0
2010 Total		2	16.67%	289.35	1.57	139.9	1.53	1	50.00%	412	0	135	0	1	50.00%	166.7	3.14	144.8	3.06
2011	LDGV	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
	LDGT	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
	HDGT	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
2011 Total		0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
2012	LDGV	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
	LDGT	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
	HDGT	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
2012 Total		0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
2013	LDGV	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
	LDGT	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
	HDGT	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0

Vehicle		Overall Exhaust Failures						HC Failures						CO Failures					
Year	Type	Total	Total%	Avg HC	Avg CO	Avg HC	Avg CO	Total	Total %	Avg HC	Avg CO	Avg HC	Avg CO	Total	Total%	Avg HC	Avg CO	Avg HC	Avg CO
2013 Total		0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
2014	LDGV	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
	LDGT	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
	HDGT	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
2014 Total		0	0.00%	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0	0	0
Grand Total		5,175	32.41%	685.79	3.49	475.86	2.9	2,982	57.62%	857.46	2.52	586.35	2.37	3,295	63.67%	530.44	4.36	375.87	3.38

Summary by Vehicle Type (V1.01)

Vehicle	Overall Exhaust Failures						HC Failures						CO Failures					
	Total	Total%	Avg HC	Avg CO	Avg HC	Avg CO	Total	Total %	Avg HC	Avg CO	Avg HC	Avg CO	Total	Total%	Avg HC	Avg CO	Avg HC	Avg CO
LDGV	1,374	52.42%	726.98	3.93	546.85	3.66	634	46.14%	1001.54	3.12	735.34	3.39	1,049	76.35%	561.04	4.42	432.92	3.83
LDGT	1,472	42.45%	581.39	3.26	418.71	2.62	751	51.02%	761.57	2.44	530.35	2.2	993	67.46%	445.11	3.87	334.27	2.93
HDGT	2,329	23.58%	725.36	3.37	468.92	2.63	1,597	68.57%	845.35	2.32	553.54	2.05	1,253	53.80%	572.43	4.7	361.06	3.36
Grand	5,175	32.41%	685.79	3.49	475.86	2.9	2,982	57.62%	857.46	2.52	586.35	2.37	3,295	63.67%	530.44	4.36	375.87	3.38

Appendix N

Idle Initial Visual Failure Report

(Mandatory)

Idle Initial Visual Failure Report (Mandatory) (V1.01)

Vehicle		Visual Overall					CAT				AIS				O2				Gas Cap				Opacity			
Year	Type	Total	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
1974	LDGV	1,261	1,243	98.60%	18	1.40%	11	100.00%	0	0.00%	16	100.00%	0	0.00%	2	100.00%	0	0.00%	345	100.00%	0	0.00%	1,243	98.60%	18	1.40%
	LDGT	776	770	99.20%	6	0.80%	15	93.80%	1	6.30%	18	94.70%	1	5.30%	1	100.00%	0	0.00%	199	100.00%	0	0.00%	771	99.40%	5	0.60%
	HDGT	752	750	99.70%	2	0.30%	9	100.00%	0	0.00%	7	100.00%	0	0.00%	2	100.00%	0	0.00%	193	100.00%	0	0.00%	750	99.70%	2	0.30%
1974 Total		2,789	2,763	99.10%	26	0.90%	35	97.20%	1	2.80%	41	97.60%	1	2.40%	5	100.00%	0	0.00%	737	100.00%	0	0.00%	2,764	99.10%	25	0.90%
1975	LDGV	89	86	96.60%	3	3.40%	57	100.00%	0	0.00%	36	97.30%	1	2.70%	2	100.00%	0	0.00%	89	100.00%	0	0.00%	87	97.80%	2	2.20%
	LDGT	44	41	93.20%	3	6.80%	23	100.00%	0	0.00%	17	89.50%	2	10.50%	1	100.00%	0	0.00%	43	97.70%	1	2.30%	44	100.00%	0	0.00%
	HDGT	187	185	98.90%	2	1.10%	6	100.00%	0	0.00%	11	91.70%	1	8.30%	0	0.00%	0	0.00%	186	100.00%	0	0.00%	186	99.50%	1	0.50%
1975 Total		320	312	97.50%	8	2.50%	86	100.00%	0	0.00%	64	94.10%	4	5.90%	3	100.00%	0	0.00%	318	99.70%	1	0.30%	417	99.10%	3	0.90%
1976	LDGV	420	389	92.60%	31	7.40%	310	96.00%	13	4.00%	171	91.00%	17	9.00%	17	100.00%	0	0.00%	417	99.30%	3	0.70%	417	99.30%	3	0.70%
	LDGT	255	230	90.20%	25	9.80%	102	93.60%	7	6.40%	105	85.40%	18	14.60%	6	100.00%	0	0.00%	251	99.20%	2	0.80%	254	99.60%	1	0.40%
	HDGT	801	784	97.90%	17	2.10%	44	95.70%	2	4.30%	66	94.30%	4	5.70%	3	100.00%	0	0.00%	800	99.90%	1	0.10%	791	98.80%	10	1.20%
1976 Total		1,476	1,403	95.10%	73	4.90%	456	95.40%	22	4.60%	342	89.80%	39	10.20%	26	100.00%	0	0.00%	1,468	99.60%	6	0.40%	1,462	99.10%	14	0.90%
1977	LDGV	530	501	94.50%	29	5.50%	429	97.10%	13	2.90%	261	95.30%	13	4.70%	17	100.00%	0	0.00%	529	99.80%	1	0.20%	525	99.10%	5	0.90%
	LDGT	210	183	87.10%	27	12.90%	124	91.90%	11	8.10%	99	83.20%	20	16.80%	6	100.00%	0	0.00%	210	100.00%	0	0.00%	208	99.00%	2	1.00%
	HDGT	1,058	1,034	97.70%	24	2.30%	59	86.80%	9	13.20%	85	90.40%	9	9.60%	8	100.00%	0	0.00%	1,056	99.90%	1	0.10%	1,050	99.20%	8	0.80%
1977 Total		1,798	1,718	95.60%	80	4.40%	612	94.90%	33	5.10%	445	91.40%	42	8.60%	31	100.00%	0	0.00%	1,795	99.90%	2	0.10%	1,783	99.20%	15	0.80%
1978	LDGV	712	675	94.80%	37	5.20%	597	98.40%	10	1.60%	356	93.40%	25	6.60%	30	93.80%	2	6.30%	711	99.90%	1	0.10%	709	99.60%	3	0.40%
	LDGT	321	298	92.80%	23	7.20%	163	94.20%	10	5.80%	178	93.20%	13	6.80%	8	100.00%	0	0.00%	320	99.70%	1	0.30%	320	99.70%	1	0.30%
	HDGT	1,297	1,263	97.40%	34	2.60%	125	90.60%	13	9.40%	142	93.40%	10	6.60%	18	94.70%	1	5.30%	1,292	99.80%	3	0.20%	1,286	99.20%	11	0.80%
1978 Total		2,330	2,236	96.00%	94	4.00%	885	96.40%	33	3.60%	676	93.40%	48	6.60%	56	94.90%	3	5.10%	2,323	99.80%	5	0.20%	2,315	99.40%	15	0.60%
1979	LDGV	818	773	94.50%	45	5.50%	706	97.20%	20	2.80%	398	95.40%	19	4.60%	46	100.00%	0	0.00%	816	99.90%	1	0.10%	806	98.50%	12	1.50%
	LDGT	992	899	90.60%	93	9.40%	819	95.60%	38	4.40%	550	89.10%	67	10.90%	21	91.30%	2	8.70%	982	99.20%	8	0.80%	987	99.50%	5	0.50%
	HDGT	314	299	95.20%	15	4.80%	42	97.70%	1	2.30%	154	91.10%	15	8.90%	6	100.00%	0	0.00%	314	100.00%	0	0.00%	314	100.00%	0	0.00%
1979 Total		2,124	1,971	92.80%	153	7.20%	1,567	96.40%	59	3.60%	1,102	91.60%	101	8.40%	73	97.30%	2	2.70%	2,112	99.60%	9	0.40%	2,107	99.20%	17	0.80%
1980	LDGV	537	509	94.80%	28	5.20%	501	97.70%	12	2.30%	386	95.80%	17	4.20%	109	96.50%	4	3.50%	535	99.80%	1	0.20%	535	99.60%	2	0.40%
	LDGT	521	483	92.70%	38	7.30%	413	96.00%	17	4.00%	364	92.90%	28	7.10%	25	96.20%	1	3.80%	515	99.40%	3	0.60%	516	99.00%	5	1.00%
	HDGT	147	141	95.90%	6	4.10%	17	89.50%	2	10.50%	101	96.20%	4	3.80%	3	100.00%	0	0.00%	144	100.00%	0	0.00%	147	100.00%	0	0.00%
1980 Total		1,205	1,133	94.00%	72	6.00%	931	96.80%	31	3.20%	851	94.60%	49	5.40%	137	96.50%	5	3.50%	1,194	99.70%	4	0.30%	1,198	99.40%	7	0.60%
1981	LDGV	493	466	94.50%	27	5.50%	479	97.60%	12	2.40%	317	94.90%	17	5.10%	337	96.80%	11	3.20%	492	99.80%	1	0.20%	493	100.00%	0	0.00%
	LDGT	556	523	94.10%	33	5.90%	526	97.60%	13	2.40%	422	95.00%	22	5.00%	80	98.80%	1	1.20%	550	99.50%	3	0.50%	554	99.60%	2	0.40%
	HDGT	257	237	92.20%	20	7.80%	30	93.80%	2	6.30%	215	93.90%	14	6.10%	9	100.00%	0	0.00%	256	100.00%	0	0.00%	251	97.70%	6	2.30%
1981 Total		1,306	1,226	93.90%	80	6.10%	1,035	97.50%	27	2.50%	954	94.70%	53	5.30%	426	97.30%	12	2.70%	1,298	99.70%	4	0.30%	1,298	99.40%	8	0.60%
1982	LDGV	12	11	91.70%	1	8.30%	11	100.00%	0	0.00%	4	100.00%	0	0.00%	8	100.00%	0	0.00%	11	91.70%	1	8.30%	12	100.00%	0	0.00%
	LDGT	2	2	100.00%	0	0.00%	2	100.00%	0	0.00%	1	100.00%	0	0.00%	1	100.00%	0	0.00%	2	100.00%	0	0.00%	2	100.00%	0	0.00%
	HDGT	149	139	93.30%	10	6.70%	18	94.70%	1	5.30%	130	93.50%	9	6.50%	3	75.00%	1	25.00%	149	100.00%	0	0.00%	149	100.00%	0	0.00%
1982 Total		163	152	93.30%	11	6.70%	31	96.90%	1	3.10%	135	93.80%	9	6.30%	12	92.30%	1	7.70%	162	99.40%	1	0.60%	163	100.00%	0	0.00%
1983	LDGV	14	14	100.00%	0	0.00%	13	100.00%	0	0.00%	6	100.00%	0	0.00%	8	100.00%	0	0.00%	14	100.00%	0	0.00%	14	100.00%	0	0.00%
	LDGT	6	5	83.30%	1	16.70%	5	83.30%	1	16.70%	3	75.00%	1	25.00%	3	100.00%	0	0.00%	6	100.00%	0	0.00%	6	100.00%	0	0.00%
	HDGT	260	247	95.00%	13	5.00%	23	100.00%	0	0.00%	241	96.40%	9	3.60%	6	100.00%	0	0.00%	260	100.00%	0	0.00%	256	98.50%	4	1.50%
1983 Total		280	266	95.00%	14	5.00%	41	97.60%	1	2.40%	250	96.20%	10	3.80%	17	100.00%	0	0.00%	280	100.00%	0	0.00%	276	98.60%	4	1.40%
1984	LDGV	9	9	100.00%	0	0.00%	9	100.00%	0	0.00%	7	100.00%	0	0.00%	8	100.00%	0	0.00%	9	100.00%	0	0.00%	9	100.00%	0	0.00%
	LDGT	5	5	100.00%	0	0.00%	5	100.00%	0	0.00%	5	100.00%	0	0.00%	2	100.00%	0	0.00%	5	100.00%	0	0.00%	5	100.00%	0	0.00%
	HDGT	344	328	95.30%	16	4.70%	30	100.00%	0	0.00%	312	95.40%	15	4.60%	16	100.00%	0	0.00%	343	99.70%	1	0.30%	344	100.00%	0	0.00%

Vehicle		Visual Overall					CAT				AIS				O2				Gas Cap				Opacity			
Year	Type	Total	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
1984 Total		358	342	95.50%	16	4.50%	44	100.00%	0	0.00%	324	95.60%	15	4.40%	26	100.00%	0	0.00%	357	99.70%	1	0.30%	358	100.00%	0	0.00%
1985	LDGV	14	14	100.00%	0	0.00%	13	100.00%	0	0.00%	8	100.00%	0	0.00%	10	100.00%	0	0.00%	14	100.00%	0	0.00%	14	100.00%	0	0.00%
	LDGT	5	4	80.00%	1	20.00%	4	100.00%	0	0.00%	2	100.00%	0	0.00%	3	100.00%	0	0.00%	5	100.00%	0	0.00%	4	80.00%	1	20.00%
	HDGT	466	436	93.60%	30	6.40%	53	94.60%	3	5.40%	422	95.00%	22	5.00%	27	100.00%	0	0.00%	464	99.60%	2	0.40%	461	98.90%	5	1.10%
1985 Total		485	454	93.60%	31	6.40%	70	95.90%	3	4.10%	432	95.20%	22	4.80%	40	100.00%	0	0.00%	483	99.60%	2	0.40%	479	98.80%	6	1.20%
1986	LDGV	16	16	100.00%	0	0.00%	16	100.00%	0	0.00%	10	100.00%	0	0.00%	15	100.00%	0	0.00%	16	100.00%	0	0.00%	16	100.00%	0	0.00%
	LDGT	10	10	100.00%	0	0.00%	9	100.00%	0	0.00%	5	100.00%	0	0.00%	4	100.00%	0	0.00%	10	100.00%	0	0.00%	10	100.00%	0	0.00%
	HDGT	368	346	94.00%	22	6.00%	42	95.50%	2	4.50%	331	94.60%	19	5.40%	25	100.00%	0	0.00%	367	100.00%	0	0.00%	366	99.50%	2	0.50%
1986 Total		394	372	94.40%	22	5.60%	67	97.10%	2	2.90%	346	94.80%	19	5.20%	44	100.00%	0	0.00%	393	100.00%	0	0.00%	392	99.50%	2	0.50%
1987	LDGV	24	24	100.00%	0	0.00%	22	100.00%	0	0.00%	11	100.00%	0	0.00%	19	100.00%	0	0.00%	24	100.00%	0	0.00%	24	100.00%	0	0.00%
	LDGT	33	33	100.00%	0	0.00%	33	100.00%	0	0.00%	5	100.00%	0	0.00%	32	100.00%	0	0.00%	33	100.00%	0	0.00%	33	100.00%	0	0.00%
	HDGT	370	361	97.60%	9	2.40%	156	100.00%	0	0.00%	329	97.90%	7	2.10%	115	100.00%	0	0.00%	368	99.70%	1	0.30%	368	99.50%	2	0.50%
1987 Total		427	418	97.90%	9	2.10%	211	100.00%	0	0.00%	345	98.00%	7	2.00%	166	100.00%	0	0.00%	425	99.80%	1	0.20%	425	99.50%	2	0.50%
1988	LDGV	14	14	100.00%	0	0.00%	14	100.00%	0	0.00%	3	100.00%	0	0.00%	13	100.00%	0	0.00%	14	100.00%	0	0.00%	14	100.00%	0	0.00%
	LDGT	57	56	98.20%	1	1.80%	56	98.20%	1	1.80%	7	100.00%	0	0.00%	56	98.20%	1	1.80%	57	100.00%	0	0.00%	57	100.00%	0	0.00%
	HDGT	421	408	96.90%	13	3.10%	338	98.80%	4	1.20%	380	98.40%	6	1.60%	297	99.30%	2	0.70%	420	99.80%	1	0.20%	421	100.00%	0	0.00%
1988 Total		492	478	97.20%	14	2.80%	408	98.80%	5	1.20%	390	98.50%	6	1.50%	366	99.20%	3	0.80%	491	99.80%	1	0.20%	492	100.00%	0	0.00%
1989	LDGV	38	38	100.00%	0	0.00%	38	100.00%	0	0.00%	14	100.00%	0	0.00%	36	100.00%	0	0.00%	38	100.00%	0	0.00%	38	100.00%	0	0.00%
	LDGT	78	77	98.70%	1	1.30%	77	98.70%	1	1.30%	5	100.00%	0	0.00%	75	100.00%	0	0.00%	77	100.00%	0	0.00%	78	100.00%	0	0.00%
	HDGT	883	862	97.60%	21	2.40%	786	99.10%	7	0.90%	656	97.80%	15	2.20%	710	100.00%	0	0.00%	880	99.80%	2	0.20%	880	99.70%	3	0.30%
1989 Total		999	977	97.80%	22	2.20%	901	99.10%	8	0.90%	675	97.80%	15	2.20%	821	100.00%	0	0.00%	995	99.80%	2	0.20%	996	99.70%	3	0.30%
1990	LDGV	43	43	100.00%	0	0.00%	41	100.00%	0	0.00%	10	100.00%	0	0.00%	41	100.00%	0	0.00%	43	100.00%	0	0.00%	43	100.00%	0	0.00%
	LDGT	105	105	100.00%	0	0.00%	105	100.00%	0	0.00%	5	100.00%	0	0.00%	105	100.00%	0	0.00%	105	100.00%	0	0.00%	105	100.00%	0	0.00%
	HDGT	640	625	97.70%	15	2.30%	619	98.70%	8	1.30%	366	98.70%	5	1.30%	618	99.50%	3	0.50%	638	99.70%	2	0.30%	638	99.70%	2	0.30%
1990 Total		788	773	98.10%	15	1.90%	765	99.00%	8	1.00%	381	98.70%	5	1.30%	764	99.60%	3	0.40%	786	99.70%	2	0.30%	786	99.70%	2	0.30%
1991	LDGV	52	51	98.10%	1	1.90%	51	98.10%	1	1.90%	13	100.00%	0	0.00%	52	100.00%	0	0.00%	52	100.00%	0	0.00%	52	100.00%	0	0.00%
	LDGT	97	97	100.00%	0	0.00%	96	100.00%	0	0.00%	9	100.00%	0	0.00%	96	100.00%	0	0.00%	97	100.00%	0	0.00%	97	100.00%	0	0.00%
	HDGT	710	703	99.00%	7	1.00%	699	99.40%	4	0.60%	359	98.60%	5	1.40%	702	100.00%	0	0.00%	710	100.00%	0	0.00%	709	99.90%	1	0.10%
1991 Total		859	851	99.10%	8	0.90%	846	99.40%	5	0.60%	381	98.70%	5	1.30%	850	100.00%	0	0.00%	859	100.00%	0	0.00%	858	99.90%	1	0.10%
1992	LDGV	55	55	100.00%	0	0.00%	55	100.00%	0	0.00%	17	100.00%	0	0.00%	55	100.00%	0	0.00%	55	100.00%	0	0.00%	55	100.00%	0	0.00%
	LDGT	78	78	100.00%	0	0.00%	78	100.00%	0	0.00%	3	100.00%	0	0.00%	78	100.00%	0	0.00%	78	100.00%	0	0.00%	78	100.00%	0	0.00%
	HDGT	772	754	97.70%	18	2.30%	759	99.20%	6	0.80%	433	98.20%	8	1.80%	765	99.90%	1	0.10%	767	99.70%	2	0.30%	769	99.60%	3	0.40%
1992 Total		905	887	98.00%	18	2.00%	892	99.30%	6	0.70%	453	98.30%	8	1.70%	898	99.90%	1	0.10%	900	99.80%	2	0.20%	902	99.70%	3	0.30%
1993	LDGV	36	33	91.70%	3	8.30%	34	94.40%	2	5.60%	14	100.00%	0	0.00%	35	97.20%	1	2.80%	36	100.00%	0	0.00%	35	97.20%	1	2.80%
	LDGT	49	49	100.00%	0	0.00%	49	100.00%	0	0.00%	7	100.00%	0	0.00%	49	100.00%	0	0.00%	48	100.00%	0	0.00%	49	100.00%	0	0.00%
	HDGT	1,078	1,065	98.80%	13	1.20%	1,066	99.60%	4	0.40%	554	99.30%	4	0.70%	1,071	99.80%	2	0.20%	1,071	99.60%	4	0.40%	1,077	99.90%	1	0.10%
1993 Total		1,163	1,147	98.60%	16	1.40%	1,149	99.50%	6	0.50%	575	99.30%	4	0.70%	1,155	99.70%	3	0.30%	1,155	99.70%	4	0.30%	1,161	99.80%	2	0.20%
1994	LDGV	56	55	98.20%	1	1.80%	55	100.00%	0	0.00%	25	100.00%	0	0.00%	55	100.00%	0	0.00%	56	100.00%	0	0.00%	55	98.20%	1	1.80%
	LDGT	102	101	99.00%	1	1.00%	102	100.00%	0	0.00%	6	100.00%	0	0.00%	102	100.00%	0	0.00%	101	99.00%	1	1.00%	102	100.00%	0	0.00%
	HDGT	1,190	1,174	98.70%	16	1.30%	1,144	99.30%	8	0.70%	574	99.00%	6	1.00%	1,181	99.70%	4	0.30%	1,188	100.00%	0	0.00%	1,189	99.90%	1	0.10%
1994 Total		1,348	1,330	98.70%	18	1.30%	1,301	99.40%	8	0.60%	605	99.00%	6	1.00%	1,338	99.70%	4	0.30%	1,345	99.90%	1	0.10%	1,346	99.90%	2	0.10%
1995	LDGV	78	77	98.70%	1	1.30%	77	98.70%	1	1.30%	37	100.00%	0	0.00%	78	100.00%	0	0.00%	78	100.00%	0	0.00%	78	100.00%	0	0.00%
	LDGT	54	54	100.00%	0	0.00%	54	100.00%	0	0.00%	6	100.00%	0	0.00%	54	100.00%	0	0.00%	54	100.00%	0	0.00%	54	100.00%	0	0.00%
	HDGT	1,796	1,772	98.70%	24	1.30%	1,718	9																		

Vehicle		Visual Overall					CAT				AIS				O2				Gas Cap				Opacity			
Year	Type	Total	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
1995 Total		1,928	1,903	98.70%	25	1.30%	1,849	99.40%	12	0.60%	915	99.60%	4	0.40%	1,917	99.80%	3	0.20%	1,919	99.70%	6	0.30%	1,926	99.90%	2	0.10%
1996	LDGV	58	58	100.00%	0	0.00%	44	100.00%	0	0.00%	24	100.00%	0	0.00%	44	100.00%	0	0.00%	58	100.00%	0	0.00%	58	100.00%	0	0.00%
	LDGT	45	45	100.00%	0	0.00%	38	100.00%	0	0.00%	0	0.00%	0	0.00%	38	100.00%	0	0.00%	45	100.00%	0	0.00%	45	100.00%	0	0.00%
	HDGT	1,457	1,435	98.50%	22	1.50%	1,410	99.40%	8	0.60%	624	99.20%	5	0.80%	1,444	99.50%	7	0.50%	1,452	99.70%	5	0.30%	1,455	99.90%	2	0.10%
1996 Total		1,560	1,538	98.60%	22	1.40%	1,492	99.50%	8	0.50%	648	99.20%	5	0.80%	1,526	99.50%	7	0.50%	1,555	99.70%	5	0.30%	1,558	99.90%	2	0.10%
1997	LDGV	62	61	98.40%	1	1.60%	41	97.60%	1	2.40%	17	100.00%	0	0.00%	42	100.00%	0	0.00%	62	100.00%	0	0.00%	62	100.00%	0	0.00%
	LDGT	129	129	100.00%	0	0.00%	93	100.00%	0	0.00%	2	100.00%	0	0.00%	92	100.00%	0	0.00%	129	100.00%	0	0.00%	129	100.00%	0	0.00%
	HDGT	2,349	2,336	99.40%	13	0.60%	2,261	99.70%	6	0.30%	786	99.40%	5	0.60%	2,342	100.00%	1	0.00%	2,336	99.90%	3	0.10%	2,348	100.00%	1	0.00%
1997 Total		2,540	2,526	99.40%	14	0.60%	2,395	99.70%	7	0.30%	805	99.40%	5	0.60%	2,476	100.00%	1	0.00%	2,527	99.90%	3	0.10%	2,539	100.00%	1	0.00%
1998	LDGV	67	67	100.00%	0	0.00%	50	100.00%	0	0.00%	14	100.00%	0	0.00%	50	100.00%	0	0.00%	67	100.00%	0	0.00%	67	100.00%	0	0.00%
	LDGT	157	156	99.40%	1	0.60%	109	100.00%	0	0.00%	4	100.00%	0	0.00%	107	100.00%	0	0.00%	155	99.40%	1	0.60%	157	100.00%	0	0.00%
	HDGT	1,303	1,296	99.50%	7	0.50%	1,282	99.80%	2	0.20%	77	96.30%	3	3.80%	1,300	99.90%	1	0.10%	1,301	100.00%	0	0.00%	1,301	99.80%	2	0.20%
1998 Total		1,527	1,519	99.50%	8	0.50%	1,441	99.90%	2	0.10%	95	96.90%	3	3.10%	1,457	99.90%	1	0.10%	1,523	99.90%	1	0.10%	1,525	99.90%	2	0.10%
1999	LDGV	155	155	100.00%	0	0.00%	98	100.00%	0	0.00%	35	100.00%	0	0.00%	98	100.00%	0	0.00%	155	100.00%	0	0.00%	155	100.00%	0	0.00%
	LDGT	1,508	1,502	99.60%	6	0.40%	727	99.60%	3	0.40%	12	100.00%	0	0.00%	727	99.70%	2	0.30%	1,508	100.00%	0	0.00%	1,507	99.90%	1	0.10%
	HDGT	3,167	3,157	99.70%	10	0.30%	3,163	99.90%	3	0.10%	111	97.40%	3	2.60%	3,162	99.90%	3	0.10%	3,161	99.90%	2	0.10%	3,165	99.90%	2	0.10%
1999 Total		4,830	4,814	99.70%	16	0.30%	3,988	99.80%	6	0.20%	158	98.10%	3	1.90%	3,987	99.90%	5	0.10%	4,824	100.00%	2	0.00%	4,827	99.90%	3	0.10%
2000	LDGV	119	118	99.20%	1	0.80%	78	100.00%	0	0.00%	34	97.10%	1	2.90%	77	100.00%	0	0.00%	119	100.00%	0	0.00%	119	100.00%	0	0.00%
	LDGT	1,843	1,834	99.50%	9	0.50%	953	99.90%	1	0.10%	27	100.00%	0	0.00%	949	99.80%	2	0.20%	1,837	99.90%	2	0.10%	1,839	99.80%	4	0.20%
	HDGT	2,580	2,566	99.50%	14	0.50%	2,573	99.80%	4	0.20%	69	98.60%	1	1.40%	2,574	99.80%	4	0.20%	2,574	99.90%	3	0.10%	2,578	99.90%	2	0.10%
2000 Total		4,542	4,518	99.50%	24	0.50%	3,604	99.90%	5	0.10%	130	98.50%	2	1.50%	3,600	99.80%	6	0.20%	4,530	99.90%	5	0.10%	4,536	99.90%	6	0.10%
2001	LDGV	243	243	100.00%	0	0.00%	161	100.00%	0	0.00%	83	100.00%	0	0.00%	161	100.00%	0	0.00%	242	100.00%	0	0.00%	243	100.00%	0	0.00%
	LDGT	3,099	3,090	99.70%	9	0.30%	1,689	99.80%	3	0.20%	35	100.00%	0	0.00%	1,685	100.00%	0	0.00%	3,090	99.90%	4	0.10%	3,097	99.90%	2	0.10%
	HDGT	3,434	3,408	99.20%	26	0.80%	3,424	99.80%	8	0.20%	149	97.40%	4	2.60%	3,419	99.70%	11	0.30%	3,422	99.90%	5	0.10%	3,434	100.00%	0	0.00%
2001 Total		6,776	6,741	99.50%	35	0.50%	5,274	99.80%	11	0.20%	267	98.50%	4	1.50%	5,265	99.80%	11	0.20%	6,754	99.90%	9	0.10%	6,774	100.00%	2	0.00%
2002	LDGV	222	220	99.10%	2	0.90%	135	98.50%	2	1.50%	73	98.60%	1	1.40%	135	99.30%	1	0.70%	221	99.50%	1	0.50%	222	100.00%	0	0.00%
	LDGT	2,197	2,191	99.70%	6	0.30%	994	99.70%	3	0.30%	15	100.00%	0	0.00%	994	99.80%	2	0.20%	2,191	99.90%	2	0.10%	2,197	100.00%	0	0.00%
	HDGT	1,975	1,958	99.10%	17	0.90%	1,959	99.60%	7	0.40%	59	98.30%	1	1.70%	1,958	99.50%	10	0.50%	1,966	100.00%	0	0.00%	1,975	100.00%	0	0.00%
2002 Total		4,394	4,369	99.40%	25	0.60%	3,088	99.60%	12	0.40%	147	98.70%	2	1.30%	3,087	99.60%	13	0.40%	4,378	99.90%	3	0.10%	4,394	100.00%	0	0.00%
2003	LDGV	377	373	98.90%	4	1.10%	227	98.70%	3	1.30%	77	98.70%	1	1.30%	228	99.60%	1	0.40%	377	100.00%	0	0.00%	377	100.00%	0	0.00%
	LDGT	2,900	2,895	99.80%	5	0.20%	1,362	99.90%	2	0.10%	20	100.00%	0	0.00%	1,362	99.90%	1	0.10%	2,892	99.90%	2	0.10%	2,900	100.00%	0	0.00%
	HDGT	2,959	2,947	99.60%	12	0.40%	2,951	99.80%	5	0.20%	42	100.00%	0	0.00%	2,951	99.90%	3	0.10%	2,954	99.90%	4	0.10%	2,959	100.00%	0	0.00%
2003 Total		6,236	6,215	99.70%	21	0.30%	4,540	99.80%	10	0.20%	139	99.30%	1	0.70%	4,541	99.90%	5	0.10%	6,223	99.90%	6	0.10%	6,236	100.00%	0	0.00%
2004	LDGV	295	293	99.30%	2	0.70%	191	99.00%	2	1.00%	75	100.00%	0	0.00%	191	99.50%	1	0.50%	294	100.00%	0	0.00%	295	100.00%	0	0.00%
	LDGT	1,913	1,911	99.90%	2	0.10%	942	100.00%	0	0.00%	10	90.90%	1	9.10%	940	100.00%	0	0.00%	1,909	100.00%	0	0.00%	1,912	99.90%	1	0.10%
	HDGT	1,898	1,892	99.70%	6	0.30%	1,896	99.90%	2	0.10%	24	100.00%	0	0.00%	1,896	99.90%	1	0.10%	1,886	99.90%	2	0.10%	1,897	99.90%	1	0.10%
2004 Total		4,106	4,096	99.80%	10	0.20%	3,029	99.90%	4	0.10%	109	99.10%	1	0.90%	3,027	99.90%	2	0.10%	4,089	100.00%	2	0.00%	4,104	100.00%	2	0.00%
2005	LDGV	405	403	99.50%	2	0.50%	282	100.00%	0	0.00%	86	100.00%	0	0.00%	280	99.60%	1	0.40%	402	99.80%	1	0.20%	405	100.00%	0	0.00%
	LDGT	2,483	2,480	99.90%	3	0.10%	797	100.00%	0	0.00%	15	100.00%	0	0.00%	796	100.00%	0	0.00%	2,481	99.90%	2	0.10%	2,482	100.00%	1	0.00%
	HDGT	2,531	2,523	99.70%	8	0.30%	2,525	99.80%	4	0.20%	17	100.00%	0	0.00%	2,526	99.90%	3	0.10%	2,524	100.00%	1	0.00%	2,531	100.00%	0	0.00%
2005 Total		5,419	5,406	99.80%	13	0.20%	3,604	99.90%	4	0.10%	118	100.00%	0	0.00%	3,602	99.90%	4	0.10%	5,407	99.90%	4	0.10%	5,418	100.00%	1	0.00%
2006	LDGV	408	406	99.50%	2	0.50%	277	99.30%	2	0.70%	99	100.00%	0	0.00%	279	100.00%	0	0.00%	407	100.00%	0	0.00%	408	100.00%	0	0.00%

Vehicle		Visual Overall					CAT				AIS				O2				Gas Cap				Opacity			
Year	Type	Total	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
2006 Total		3,893	3,885	99.80%	8	0.20%	2,891	99.90%	2	0.10%	148	99.30%	1	0.70%	2,887	99.90%	2	0.10%	3,878	99.90%	3	0.10%	3,893	100.00%	0	0.00%
2007	LDGV	523	519	99.20%	4	0.80%	321	99.40%	2	0.60%	131	100.00%	0	0.00%	322	99.70%	1	0.30%	520	100.00%	0	0.00%	522	99.80%	1	0.20%
	LDGT	2,846	2,842	99.90%	4	0.10%	598	99.70%	2	0.30%	47	100.00%	0	0.00%	597	99.80%	1	0.20%	2,841	99.90%	2	0.10%	2,846	100.00%	0	0.00%
	HDGT	2,189	2,187	99.90%	2	0.10%	2,187	100.00%	1	0.00%	44	100.00%	0	0.00%	2,187	100.00%	0	0.00%	2,184	100.00%	1	0.00%	2,189	100.00%	0	0.00%
2007 Total		5,558	5,548	99.80%	10	0.20%	3,106	99.80%	5	0.20%	222	100.00%	0	0.00%	3,106	99.90%	2	0.10%	5,545	99.90%	3	0.10%	5,557	100.00%	1	0.00%
2008	LDGV	600	597	99.50%	3	0.50%	426	99.30%	3	0.70%	105	99.10%	1	0.90%	427	99.80%	1	0.20%	526	100.00%	0	0.00%	600	100.00%	0	0.00%
	LDGT	1,473	1,472	99.90%	1	0.10%	407	99.80%	1	0.20%	47	100.00%	0	0.00%	407	100.00%	0	0.00%	1,462	100.00%	0	0.00%	1,473	100.00%	0	0.00%
	HDGT	1,380	1,380	100.00%	0	0.00%	1,379	100.00%	0	0.00%	19	100.00%	0	0.00%	1,380	100.00%	0	0.00%	1,378	100.00%	0	0.00%	1,380	100.00%	0	0.00%
2008 Total		3,453	3,449	99.90%	4	0.10%	2,212	99.80%	4	0.20%	171	99.40%	1	0.60%	2,214	100.00%	1	0.00%	3,366	100.00%	0	0.00%	3,453	100.00%	0	0.00%
2009	LDGV	571	570	99.80%	1	0.20%	252	99.60%	1	0.40%	88	100.00%	0	0.00%	253	100.00%	0	0.00%	533	100.00%	0	0.00%	571	100.00%	0	0.00%
	LDGT	1,576	1,576	100.00%	0	0.00%	257	100.00%	0	0.00%	24	100.00%	0	0.00%	255	100.00%	0	0.00%	1,574	100.00%	0	0.00%	1,576	100.00%	0	0.00%
	HDGT	1,420	1,417	99.80%	3	0.20%	1,375	100.00%	0	0.00%	9	90.00%	1	10.00%	1,417	99.90%	2	0.10%	1,364	100.00%	0	0.00%	1,420	100.00%	0	0.00%
2009 Total		3,567	3,563	99.90%	4	0.10%	1,884	99.90%	1	0.10%	121	99.20%	1	0.80%	1,925	99.90%	2	0.10%	3,471	100.00%	0	0.00%	3,567	100.00%	0	0.00%
2010	LDGV	81	80	98.80%	1	1.20%	50	98.00%	1	2.00%	9	100.00%	0	0.00%	50	98.00%	1	2.00%	80	100.00%	0	0.00%	81	100.00%	0	0.00%
	LDGT	436	436	100.00%	0	0.00%	91	100.00%	0	0.00%	13	100.00%	0	0.00%	91	100.00%	0	0.00%	433	100.00%	0	0.00%	436	100.00%	0	0.00%
	HDGT	323	322	99.70%	1	0.30%	201	100.00%	0	0.00%	3	100.00%	0	0.00%	321	99.70%	1	0.30%	199	100.00%	0	0.00%	323	100.00%	0	0.00%
2010 Total		840	838	99.80%	2	0.20%	342	99.70%	1	0.30%	25	100.00%	0	0.00%	462	99.60%	2	0.40%	712	100.00%	0	0.00%	840	100.00%	0	0.00%
2011	LDGV	38	38	100.00%	0	0.00%	13	100.00%	0	0.00%	4	100.00%	0	0.00%	13	100.00%	0	0.00%	37	100.00%	0	0.00%	38	100.00%	0	0.00%
	LDGT	160	160	100.00%	0	0.00%	24	100.00%	0	0.00%	3	100.00%	0	0.00%	24	100.00%	0	0.00%	159	100.00%	0	0.00%	160	100.00%	0	0.00%
	HDGT	183	182	99.50%	1	0.50%	183	100.00%	0	0.00%	3	100.00%	0	0.00%	181	99.50%	1	0.50%	178	100.00%	0	0.00%	183	100.00%	0	0.00%
2011 Total		381	380	99.70%	1	0.30%	220	100.00%	0	0.00%	10	100.00%	0	0.00%	218	99.50%	1	0.50%	374	100.00%	0	0.00%	381	100.00%	0	0.00%
2012	LDGV	25	25	100.00%	0	0.00%	8	100.00%	0	0.00%	3	100.00%	0	0.00%	8	100.00%	0	0.00%	25	100.00%	0	0.00%	25	100.00%	0	0.00%
	LDGT	80	80	100.00%	0	0.00%	21	100.00%	0	0.00%	3	100.00%	0	0.00%	21	100.00%	0	0.00%	80	100.00%	0	0.00%	80	100.00%	0	0.00%
	HDGT	116	116	100.00%	0	0.00%	116	100.00%	0	0.00%	1	100.00%	0	0.00%	116	100.00%	0	0.00%	116	100.00%	0	0.00%	116	100.00%	0	0.00%
2012 Total		221	221	100.00%	0	0.00%	145	100.00%	0	0.00%	7	100.00%	0	0.00%	145	100.00%	0	0.00%	221	100.00%	0	0.00%	221	100.00%	0	0.00%
2013	LDGV	19	19	100.00%	0	0.00%	10	100.00%	0	0.00%	6	100.00%	0	0.00%	10	100.00%	0	0.00%	19	100.00%	0	0.00%	19	100.00%	0	0.00%
	LDGT	34	34	100.00%	0	0.00%	5	100.00%	0	0.00%	1	100.00%	0	0.00%	5	100.00%	0	0.00%	34	100.00%	0	0.00%	34	100.00%	0	0.00%
	HDGT	35	35	100.00%	0	0.00%	35	100.00%	0	0.00%	1	100.00%	0	0.00%	35	100.00%	0	0.00%	35	100.00%	0	0.00%	35	100.00%	0	0.00%
2013 Total		88	88	100.00%	0	0.00%	50	100.00%	0	0.00%	8	100.00%	0	0.00%	50	100.00%	0	0.00%	88	100.00%	0	0.00%	88	100.00%	0	0.00%
2014	LDGT	2	2	100.00%	0	0.00%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	1	100.00%	0	0.00%	2	100.00%	0	0.00%	2	100.00%	0	0.00%
	HDGT	6	6	100.00%	0	0.00%	6	100.00%	0	0.00%	0	0.00%	0	0.00%	6	100.00%	0	0.00%	5	100.00%	0	0.00%	6	100.00%	0	0.00%
2014 Total		8	8	100.00%	0	0.00%	7	100.00%	0	0.00%	0	0.00%	0	0.00%	7	100.00%	0	0.00%	7	100.00%	0	0.00%	8	100.00%	0	0.00%
Grand Total		83,876	82,834	98.80%	1,042	1.20%	57,494	99.40%	353	0.60%	14,010	96.50%	501	3.50%	52,753	99.80%	105	0.20%	81,267	99.90%	100	0.10%	83,723	99.80%	153	0.20%

Summary by Vehicle Type (V1.01)

Vehicle	Visual Overall					CAT				AIS				O2				Gas Cap				Opacity			
	Total	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
LDGV	9589	9341	97.40%	248	2.60%	6203	98.40%	101	1.60%	3083	96.50%	113	3.50%	3661	99.30%	25	0.70%	8538	99.90%	11	0.10%	9541	99.50%	48	0.50%
LDGT	28673	28372	99.00%	301	1.00%	12536	99.10%	115	0.90%	2127	92.50%	173	7.50%	10465	99.90%	13	0.10%	27997	99.90%	36	0.10%	28642	99.90%	31	0.10%
HDGT	45614	45121	98.90%	493	1.10%	38755	99.60%	137	0.40%	8800	97.60%	215	2.40%	38627	99.80%	67	0.20%	44732	99.90%	53	0.10%	45540	99.80%	74	0.20%
Grand Total	83876	82834	98.80%	1,042	1.20%	57494	99.40%	353	0.60%	14010	96.50%	501	3.50%	52753	99.80%	105	0.20%	81267	99.90%	100	0.10%	83723	99.80%	153	0.20%

Appendix O

Idle Initial Visual Failure Report

(Advisory)

Idle Initial Visual Failure Report (Advisory) (V1.02)

Vehicle		Cap Pressure				Eng Light				OBD				EVAP System			
Year	Type	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
1974	LDGV	0	0.00%	0	0.00%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT	0	0.00%	0	0.00%	0	0.00%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	HDGT	0	0.00%	0	0.00%	2	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1974 Total		0	0.00%	0	0.00%	3	75.00%	1	25.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1975	LDGV	46	92.00%	4	8.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT	17	70.83%	7	29.17%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	HDGT	2	66.67%	1	33.33%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1975 Total		65	84.42%	12	15.58%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1976	LDGV	190	88.79%	24	11.21%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT	103	71.03%	42	28.97%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	HDGT	7	43.75%	9	56.25%	0	0.00%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1976 Total		300	80.00%	75	20.00%	0	0.00%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1977	LDGV	286	92.26%	24	7.74%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT	95	81.90%	21	18.10%	0	0.00%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	HDGT	26	74.29%	9	25.71%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1977 Total		407	88.29%	54	11.71%	0	0.00%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1978	LDGV	366	89.05%	45	10.95%	1	33.33%	2	66.67%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT	150	85.71%	25	14.29%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	HDGT	20	64.52%	11	35.48%	1	50.00%	1	50.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1978 Total		536	86.87%	81	13.13%	2	40.00%	3	60.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1979	LDGV	421	91.92%	37	8.08%	75	93.75%	5	6.25%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT	527	85.00%	93	15.00%	26	78.79%	7	21.21%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	HDGT	5	100.00%	0	0.00%	14	93.33%	1	6.67%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1979 Total		953	88.00%	130	12.00%	115	89.84%	13	10.16%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1980	LDGV	305	94.72%	17	5.28%	85	85.86%	14	14.14%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT	283	86.28%	45	13.72%	26	70.27%	11	29.73%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	HDGT	0	0.00%	0	0.00%	12	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1980 Total		588	90.46%	62	9.54%	123	83.11%	25	16.89%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1981	LDGV	281	92.74%	22	7.26%	242	88.00%	33	12.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT	288	84.46%	53	15.54%	60	85.71%	10	14.29%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	HDGT	1	100.00%	0	0.00%	18	85.71%	3	14.29%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1981 Total		570	88.37%	75	11.63%	320	87.43%	46	12.57%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1982	LDGV	7	87.50%	1	12.50%	4	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT	0	0.00%	1	100.00%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	HDGT	0	0.00%	0	0.00%	11	73.33%	4	26.67%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1982 Total		7	77.78%	2	22.22%	16	80.00%	4	20.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1983	LDGV	6	85.71%	1	14.29%	6	85.71%	1	14.29%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT	3	100.00%	0	0.00%	2	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	HDGT	0	0.00%	0	0.00%	19	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1983 Total		9	90.00%	1	10.00%	27	96.43%	1	3.57%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1984	LDGV	6	85.71%	1	14.29%	7	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT	2	66.67%	1	33.33%	2	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	HDGT	2	40.00%	3	60.00%	34	97.14%	1	2.86%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1984 Total		10	66.67%	5	33.33%	43	97.73%	1	2.27%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1985	LDGV	9	100.00%	0	0.00%	3	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT	5	100.00%	0	0.00%	1	33.33%	2	66.67%	0	0.00%	0	0.00%	0	0.00%	0	0.00%

Vehicle		Cap Pressure				Eng Light				OBD				EVAP System			
Year	Type	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
	HDGT	0	0.00%	3	100.00%	100	94.34%	6	5.66%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1985 Total		14	82.35%	3	17.65%	104	92.86%	8	7.14%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1986	LDGV	11	100.00%	0	0.00%	7	87.50%	1	12.50%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT	4	66.67%	2	33.33%	5	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	HDGT	1	100.00%	0	0.00%	113	93.39%	8	6.61%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1986 Total		16	88.89%	2	11.11%	125	93.28%	9	6.72%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1987	LDGV	18	100.00%	0	0.00%	13	92.86%	1	7.14%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT	3	60.00%	2	40.00%	30	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	HDGT	0	0.00%	1	100.00%	181	95.77%	8	4.23%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1987 Total		21	87.50%	3	12.50%	224	96.14%	9	3.86%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1988	LDGV	5	100.00%	0	0.00%	11	91.67%	1	8.33%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT	7	100.00%	0	0.00%	50	98.04%	1	1.96%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	HDGT	1	50.00%	1	50.00%	316	93.22%	23	6.78%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1988 Total		13	92.86%	1	7.14%	377	93.78%	25	6.22%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1989	LDGV	25	96.15%	1	3.85%	27	96.43%	1	3.57%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT	8	88.89%	1	11.11%	69	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	HDGT	5	71.43%	2	28.57%	733	94.70%	41	5.30%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1989 Total		38	90.48%	4	9.52%	829	95.18%	42	4.82%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1990	LDGV	27	100.00%	0	0.00%	27	84.38%	5	15.63%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT	7	100.00%	0	0.00%	102	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	HDGT	5	71.43%	2	28.57%	581	94.32%	35	5.68%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1990 Total		39	95.12%	2	4.88%	710	94.67%	40	5.33%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1991	LDGV	45	100.00%	0	0.00%	50	96.15%	2	3.85%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT	15	100.00%	0	0.00%	95	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	HDGT	3	100.00%	0	0.00%	649	93.65%	44	6.35%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1991 Total		63	100.00%	0	0.00%	794	94.52%	46	5.48%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1992	LDGV	44	97.78%	1	2.22%	47	88.68%	6	11.32%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT	4	100.00%	0	0.00%	75	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	HDGT	2	33.33%	4	66.67%	724	94.15%	45	5.85%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1992 Total		50	90.91%	5	9.09%	846	94.31%	51	5.69%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1993	LDGV	27	96.43%	1	3.57%	31	86.11%	5	13.89%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT	11	84.62%	2	15.38%	49	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	HDGT	4	50.00%	4	50.00%	1032	95.82%	45	4.18%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1993 Total		42	85.71%	7	14.29%	1112	95.70%	50	4.30%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1994	LDGV	36	100.00%	0	0.00%	49	90.74%	5	9.26%	2	100.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT	23	85.19%	4	14.81%	90	97.83%	2	2.17%	16	100.00%	0	0.00%	0	0.00%	0	0.00%
	HDGT	6	85.71%	1	14.29%	1143	96.29%	44	3.71%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1994 Total		65	92.86%	5	7.14%	1282	96.17%	51	3.83%	18	100.00%	0	0.00%	0	0.00%	0	0.00%
1995	LDGV	61	98.39%	1	1.61%	72	93.51%	5	6.49%	4	100.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT	38	95.00%	2	5.00%	52	96.30%	2	3.70%	4	100.00%	0	0.00%	0	0.00%	0	0.00%
	HDGT	7	50.00%	7	50.00%	1711	95.48%	81	4.52%	1	100.00%	0	0.00%	0	0.00%	0	0.00%
1995 Total		106	91.38%	10	8.62%	1835	95.42%	88	4.58%	9	100.00%	0	0.00%	0	0.00%	0	0.00%
1996	LDGV	46	100.00%	0	0.00%	51	87.93%	7	12.07%	32	84.21%	6	15.79%	0	0.00%	0	0.00%
	LDGT	26	100.00%	0	0.00%	39	86.67%	6	13.33%	19	73.08%	7	26.92%	0	0.00%	0	0.00%
	HDGT	6	50.00%	6	50.00%	1328	91.40%	125	8.60%	535	85.46%	91	14.54%	0	0.00%	0	0.00%
1996 Total		78	92.86%	6	7.14%	1418	91.13%	138	8.87%	586	84.93%	104	15.07%	0	0.00%	0	0.00%
1997	LDGV	42	97.67%	1	2.33%	55	88.71%	7	11.29%	35	92.11%	3	7.89%	0	0.00%	0	0.00%

Vehicle		Cap Pressure				Eng Light				OBD				EVAP System			
Year	Type	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
	LDGT	99	91.67%	9	8.33%	111	86.05%	18	13.95%	65	86.67%	10	13.33%	0	0.00%	0	0.00%
	HDGT	9	69.23%	4	30.77%	2112	90.22%	229	9.78%	950	85.05%	167	14.95%	0	0.00%	0	0.00%
1997 Total		150	91.46%	14	8.54%	2278	89.97%	254	10.03%	1,050	85.37%	180	14.63%	0	0.00%	0	0.00%
1998	LDGV	38	100.00%	0	0.00%	61	91.04%	6	8.96%	35	85.37%	6	14.63%	0	0.00%	0	0.00%
	LDGT	91	96.81%	3	3.19%	131	83.44%	26	16.56%	105	80.77%	25	19.23%	0	0.00%	0	0.00%
	HDGT	8	88.89%	1	11.11%	1155	88.71%	147	11.29%	783	87.98%	107	12.02%	0	0.00%	0	0.00%
1998 Total		137	97.16%	4	2.84%	1347	88.27%	179	11.73%	923	86.99%	138	13.01%	0	0.00%	0	0.00%
1999	LDGV	100	98.04%	2	1.96%	145	93.55%	10	6.45%	88	89.80%	10	10.20%	0	0.00%	0	0.00%
	LDGT	1,387	97.13%	41	2.87%	1245	82.56%	263	17.44%	1,118	84.12%	211	15.88%	0	0.00%	0	0.00%
	HDGT	16	76.19%	5	23.81%	2828	89.35%	337	10.65%	2,036	88.87%	255	11.13%	0	0.00%	0	0.00%
1999 Total		1,503	96.91%	48	3.09%	4218	87.37%	610	12.63%	3,242	87.20%	476	12.80%	0	0.00%	0	0.00%
2000	LDGV	68	97.14%	2	2.86%	113	94.96%	6	5.04%	73	93.59%	5	6.41%	0	0.00%	0	0.00%
	LDGT	1,565	94.11%	98	5.89%	1447	79.77%	367	20.23%	1,248	79.64%	319	20.36%	0	0.00%	0	0.00%
	HDGT	10	66.67%	5	33.33%	2363	91.59%	217	8.41%	1,626	91.97%	142	8.03%	0	0.00%	0	0.00%
2000 Total		1,643	93.99%	105	6.01%	3923	86.93%	590	13.07%	2,947	86.35%	466	13.65%	0	0.00%	0	0.00%
2001	LDGV	125	96.15%	5	3.85%	228	93.83%	15	6.17%	135	90.60%	14	9.40%	0	0.00%	0	0.00%
	LDGT	2,204	94.39%	131	5.61%	2537	84.54%	464	15.46%	2,303	83.93%	441	16.07%	0	0.00%	0	0.00%
	HDGT	22	75.86%	7	24.14%	3127	91.17%	303	8.83%	2,379	91.82%	212	8.18%	0	0.00%	0	0.00%
2001 Total		2,351	94.27%	143	5.73%	5892	88.28%	782	11.72%	4,817	87.84%	667	12.16%	0	0.00%	0	0.00%
2002	LDGV	123	98.40%	2	1.60%	213	96.38%	8	3.62%	131	92.25%	11	7.75%	0	0.00%	0	0.00%
	LDGT	1,916	95.09%	99	4.91%	1826	83.11%	371	16.89%	1,534	83.32%	307	16.68%	0	0.00%	0	0.00%
	HDGT	13	92.86%	1	7.14%	1812	91.93%	159	8.07%	1,317	91.59%	121	8.41%	0	0.00%	0	0.00%
2002 Total		2,052	95.26%	102	4.74%	3851	87.74%	538	12.26%	2,982	87.17%	439	12.83%	0	0.00%	0	0.00%
2003	LDGV	158	96.93%	5	3.07%	364	96.55%	13	3.45%	266	94.66%	15	5.34%	0	0.00%	0	0.00%
	LDGT	2,596	96.18%	103	3.82%	2497	86.10%	403	13.90%	2,138	87.48%	306	12.52%	0	0.00%	0	0.00%
	HDGT	11	73.33%	4	26.67%	2707	91.48%	252	8.52%	2,031	91.32%	193	8.68%	0	0.00%	0	0.00%
2003 Total		2,765	96.11%	112	3.89%	5568	89.29%	668	10.71%	4,435	89.61%	514	10.39%	0	0.00%	0	0.00%
2004	LDGV	131	96.32%	5	3.68%	273	95.79%	12	4.21%	146	90.68%	15	9.32%	0	0.00%	0	0.00%
	LDGT	1,677	94.48%	98	5.52%	1681	87.87%	232	12.13%	1,392	89.52%	163	10.48%	0	0.00%	0	0.00%
	HDGT	8	72.73%	3	27.27%	1714	90.31%	184	9.69%	1,127	91.33%	107	8.67%	0	0.00%	0	0.00%
2004 Total		1,816	94.48%	106	5.52%	3668	89.55%	428	10.45%	2,665	90.34%	285	9.66%	0	0.00%	0	0.00%
2005	LDGV	143	98.62%	2	1.38%	374	96.14%	15	3.86%	180	89.55%	21	10.45%	0	0.00%	0	0.00%
	LDGT	2,242	96.18%	89	3.82%	2304	92.83%	178	7.17%	1,961	93.69%	132	6.31%	0	0.00%	0	0.00%
	HDGT	10	83.33%	2	16.67%	2318	91.58%	213	8.42%	1,700	91.99%	148	8.01%	0	0.00%	0	0.00%
2005 Total		2,395	96.26%	93	3.74%	4996	92.48%	406	7.52%	3,841	92.73%	301	7.27%	0	0.00%	0	0.00%
2006	LDGV	162	98.18%	3	1.82%	378	95.21%	19	4.79%	227	92.28%	19	7.72%	0	0.00%	0	0.00%
	LDGT	1,210	95.43%	58	4.57%	1332	93.15%	98	6.85%	1,101	92.75%	86	7.25%	0	0.00%	0	0.00%
	HDGT	5	62.50%	3	37.50%	1889	92.24%	159	7.76%	1,339	92.86%	103	7.14%	0	0.00%	0	0.00%
2006 Total		1,377	95.56%	64	4.44%	3599	92.88%	276	7.12%	2,667	92.77%	208	7.23%	0	0.00%	0	0.00%
2007	LDGV	200	99.50%	1	0.50%	485	96.23%	19	3.77%	294	93.63%	20	6.37%	0	0.00%	0	0.00%
	LDGT	2,613	97.94%	55	2.06%	2766	97.26%	78	2.74%	2,527	97.57%	63	2.43%	0	0.00%	0	0.00%
	HDGT	11	91.67%	1	8.33%	2051	93.70%	138	6.30%	1,447	93.05%	108	6.95%	0	0.00%	0	0.00%
2007 Total		2,824	98.02%	57	1.98%	5302	95.76%	235	4.24%	4,268	95.72%	191	4.28%	0	0.00%	0	0.00%
2008	LDGV	201	100.00%	0	0.00%	587	98.16%	11	1.84%	317	92.96%	24	7.04%	0	0.00%	0	0.00%
	LDGT	1,227	98.16%	23	1.84%	1449	98.37%	24	1.63%	1,302	97.02%	40	2.98%	0	0.00%	0	0.00%
	HDGT	9	100.00%	0	0.00%	1330	96.38%	50	3.62%	971	95.10%	50	4.90%	0	0.00%	0	0.00%
2008 Total		1,437	98.42%	23	1.58%	3366	97.54%	85	2.46%	2,590	95.78%	114	4.22%	0	0.00%	0	0.00%

Vehicle		Cap Pressure				Eng Light				OBD				EVAP System			
Year	Type	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
2009	LDGV	338	100.00%	0	0.00%	562	98.42%	9	1.58%	367	95.57%	17	4.43%	0	0.00%	0	0.00%
	LDGT	1,418	98.47%	22	1.53%	1560	98.98%	16	1.02%	1,414	98.74%	18	1.26%	0	0.00%	0	0.00%
	HDGT	12	100.00%	0	0.00%	1386	97.61%	34	2.39%	1,002	97.28%	28	2.72%	0	0.00%	0	0.00%
2009 Total		1,768	98.77%	22	1.23%	3508	98.35%	59	1.65%	2,783	97.79%	63	2.21%	0	0.00%	0	0.00%
2010	LDGV	33	100.00%	0	0.00%	79	100.00%	0	0.00%	60	96.77%	2	3.23%	0	0.00%	0	0.00%
	LDGT	363	98.91%	4	1.09%	434	99.54%	2	0.46%	389	99.49%	2	0.51%	0	0.00%	0	0.00%
	HDGT	1	100.00%	0	0.00%	319	98.76%	4	1.24%	159	97.55%	4	2.45%	0	0.00%	0	0.00%
2010 Total		397	99.00%	4	1.00%	832	99.28%	6	0.72%	608	98.70%	8	1.30%	0	0.00%	0	0.00%
2011	LDGV	19	100.00%	0	0.00%	38	100.00%	0	0.00%	30	100.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT	141	97.24%	4	2.76%	160	100.00%	0	0.00%	145	100.00%	0	0.00%	0	0.00%	0	0.00%
	HDGT	12	100.00%	0	0.00%	181	98.91%	2	1.09%	148	96.10%	6	3.90%	0	0.00%	0	0.00%
2011 Total		172	97.73%	4	2.27%	379	99.48%	2	0.52%	323	98.18%	6	1.82%	0	0.00%	0	0.00%
2012	LDGV	17	100.00%	0	0.00%	25	100.00%	0	0.00%	21	100.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT	60	100.00%	0	0.00%	80	100.00%	0	0.00%	67	100.00%	0	0.00%	0	0.00%	0	0.00%
	HDGT	10	100.00%	0	0.00%	116	100.00%	0	0.00%	80	100.00%	0	0.00%	0	0.00%	0	0.00%
2012 Total		87	100.00%	0	0.00%	221	100.00%	0	0.00%	168	100.00%	0	0.00%	0	0.00%	0	0.00%
2013	LDGV	10	100.00%	0	0.00%	19	100.00%	0	0.00%	9	100.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT	27	100.00%	0	0.00%	34	100.00%	0	0.00%	32	100.00%	0	0.00%	0	0.00%	0	0.00%
	HDGT	7	100.00%	0	0.00%	34	97.14%	1	2.86%	24	100.00%	0	0.00%	0	0.00%	0	0.00%
2013 Total		44	100.00%	0	0.00%	87	98.86%	1	1.14%	65	100.00%	0	0.00%	0	0.00%	0	0.00%
2014	LDGT	1	100.00%	0	0.00%	1	100.00%	0	0.00%	2	100.00%	0	0.00%	0	0.00%	0	0.00%
	HDGT	0	0.00%	0	0.00%	4	66.67%	2	33.33%	1	100.00%	0	0.00%	0	0.00%	0	0.00%
2014 Total		1	100.00%	0	0.00%	5	71.43%	2	28.57%	3	100.00%	0	0.00%	0	0.00%	0	0.00%
Grand Total		26,909	94.90%	1,446	5.10%	63345	91.65%	5,774	8.35%	40,990	90.79%	4,160	9.21%	0	0.00%	0	0.00%

Records 1 - 122 (All Records)

Summary by Vehicle Type (V1.02)

Vehicle Type	Cap Pressure				Eng Light				OBD				EVAP System			
	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
LDGV	4176	95.26%	208	4.74%	4808	95.17%	244	4.83%	2452	92.88%	188	7.12%	0	0.00%	0	0.00%
LDGT	22456	95.18%	1,138	4.82%	22369	89.65%	2,583	10.35%	18882	89.86%	2,130	10.14%	0	0.00%	0	0.00%
HDGT	277	73.47%	100	26.53%	36168	92.47%	2,947	7.53%	19656	91.43%	1,842	8.57%	0	0.00%	0	0.00%
Grand Total	26909	94.90%	1,446	5.10%	63345	91.65%	5,774	8.35%	40990	90.79%	4,160	9.21%	0	0.00%	0	0.00%

Appendix P

Idle Retest Pass Reduction Report

Idle Retest Pass Reduction Report (V1.01)

Vehicle		Initial Exhaust Emissions					Passing Retest Exhaust Emissions						Emission Reductions								Average Repair Costs
Year	Type	Total	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Avg HC Idle	Avg HC% Idle	Avg CO Idle	Avg CO% Idle	Avg HC 2500rpm	Avg HC% 2500 rpm	Avg CO 2500 rpm	Avg CO% 2500 rpm	
1974	LDGV	342	817.47	4.93	539.44	3.98	232	67.84%	336.71	1.46	294.99	2.76	355.87	51.38%	3.13	68.15%	139.27	32.07%	0.8	22.52%	117.75
	LDGT	200	711.16	3.88	464.6	3.42	137	68.50%	331.99	1.31	319.63	2.95	304.06	47.80%	2.54	66.03%	76.97	19.41%	0.12	3.98%	143.00
	HDGT	82	946.1	4.26	617.51	3.15	66	80.49%	382.68	2.47	319.62	3.03	495.08	56.40%	2.23	47.38%	209.27	39.57%	0.51	14.47%	72.50
1974 Total		624	800.3	4.51	525.71	3.69	435	69.71%	342.2	1.56	306.49	2.86	360.67	51.31%	2.8	64.18%	130.27	29.83%	0.54	15.98%	120.13
1975	LDGV	17	333.69	2.72	216.14	1.82	12	70.59%	121	0.56	239.8	1.93	134.72	52.68%	1.6	74.10%	-110.33	-85.21%	-0.23	-13.25%	0.00
	LDGT	21	537.91	2.09	576.94	1.83	14	66.67%	195.75	0.53	285.49	1.4	320.85	62.11%	0.86	61.75%	382.26	57.25%	0.29	17.15%	0.00
	HDGT	24	781.76	4.63	587.43	3.61	18	75.00%	402.88	2.58	424.62	2.01	228.75	36.22%	1.53	37.17%	17.62	3.98%	1.24	38.23%	0.00
1975 Total		62	576.31	3.25	482.07	2.52	44	70.97%	260.1	1.38	329.95	1.79	232.41	47.19%	1.33	49.18%	98.75	23.04%	0.54	23.11%	0.00
1976	LDGV	182	533.74	3.46	416.23	2.73	119	65.38%	169.76	0.61	150.57	1.37	231.24	57.67%	2.34	79.23%	145.76	49.19%	1.04	43.19%	902.00
	LDGT	141	593.82	2.7	432.99	1.98	94	66.67%	194.39	0.72	164.69	1.3	294.26	60.22%	1.67	69.91%	184.73	52.87%	0.52	28.43%	0.00
	HDGT	148	862.35	4.04	525.41	2.94	100	67.57%	354.95	1.86	291.85	2.64	417.73	54.06%	2.06	52.59%	131.43	31.05%	0.03	1.00%	114.33
1976 Total		471	654.98	3.42	455.55	2.57	313	66.45%	236.32	1.04	199.95	1.76	309.75	56.72%	2.05	66.28%	152.88	43.33%	0.56	24.19%	311.25
1977	LDGV	187	433.43	2.58	311.62	2.21	120	64.17%	135.61	0.43	155.71	1.24	254.51	65.24%	1.65	79.39%	145.23	48.26%	0.5	28.81%	357.50
	LDGT	107	393.67	2.51	225.84	2.14	64	59.81%	140.95	0.46	150.02	1.44	198.84	58.52%	1.32	74.07%	65.58	30.42%	0.4	21.93%	0.00
	HDGT	190	894.56	4.42	602.26	2.97	139	73.16%	334.58	1.81	315.92	2.66	421.2	55.73%	2.34	56.35%	169.92	34.97%	0.09	3.12%	65.00
1977 Total		484	605.66	3.29	406.75	2.49	323	66.74%	222.29	1.03	223.53	1.89	315.21	58.64%	1.88	64.62%	140.07	38.52%	0.3	13.83%	260.00
1978	LDGV	290	462.79	2.2	347.78	2.37	185	63.79%	150.87	0.43	146.06	1.45	216.47	58.93%	1.52	77.85%	132.74	47.61%	0.56	27.94%	20.00
	LDGT	180	393.1	2.64	213.17	2.31	107	59.44%	117.82	0.44	119.93	1.44	277.33	70.18%	1.94	81.39%	94.27	44.01%	0.92	38.86%	320.60
	HDGT	257	958.66	3.84	636.26	3.03	183	71.21%	377.71	2.07	307.21	2.59	433.68	53.45%	1.43	40.78%	218.36	41.55%	0.17	6.12%	265.67
1978 Total		727	620.83	2.89	416.43	2.59	475	65.34%	230.82	1.07	202.26	1.89	313.86	57.62%	1.58	59.67%	157.06	43.71%	0.49	20.62%	268.08
1979	LDGV	311	380.85	2.22	264.26	2.4	189	60.77%	131.87	0.44	125.46	1.39	180.64	57.80%	1.5	77.51%	86.31	40.76%	0.63	31.30%	27.50
	LDGT	478	458.96	2.33	337.3	2.31	296	61.92%	135.59	0.38	156.54	1.52	251.22	64.95%	1.7	81.80%	136.6	46.60%	0.61	28.55%	154.00
	HDGT	61	910.12	4.24	562.25	2.74	47	77.05%	289.56	1.48	225.2	1.83	501.92	63.41%	2.56	63.40%	276.56	55.12%	0.83	31.06%	210.00
1979 Total		850	462.75	2.42	326.72	2.38	532	62.59%	147.87	0.5	151.56	1.5	248.29	62.67%	1.71	77.48%	131.1	46.38%	0.64	29.75%	125.86
1980	LDGV	149	466.91	2.9	376.02	2.89	87	58.39%	116.65	0.43	147.19	1.37	286.48	71.06%	2.06	82.73%	202.05	57.85%	1.13	45.05%	301.33
	LDGT	186	479.19	2.27	341.01	2.39	112	60.22%	114.12	0.37	161.8	1.9	299.48	72.41%	1.42	79.26%	123.83	43.35%	0.18	8.77%	0.00
	HDGT	33	715.47	3.06	609.79	3.14	26	78.79%	265.22	1	373.95	1.74	438.31	62.30%	1.56	60.82%	243.76	39.46%	0.85	32.74%	0.00
1980 Total		368	495.41	2.6	379.29	2.66	225	61.14%	132.56	0.47	180.67	1.68	310.5	70.08%	1.68	78.27%	167.93	48.17%	0.62	27.13%	301.33
1981	LDGV	300	297.84	1.27	326.43	2.64	112	37.33%	63.74	0.15	54.27	0.27	182.34	74.10%	0.98	86.96%	182.27	77.06%	1.68	86.07%	217.43
	LDGT	490	399.19	1.76	308.66	2.29	220	44.90%	73.03	0.15	65.46	0.33	228.48	75.78%	1.17	88.69%	194.42	74.81%	1.54	82.20%	292.33
	HDGT	53	810.5	2.63	621.94	2.53	31	58.49%	165.57	1.07	119.49	2.07	463.35	73.67%	1.33	55.41%	360.91	75.13%	0.31	13.02%	0.00
1981 Total		843	388.98	1.64	334.68	2.43	363	43.06%	78.06	0.23	66.62	0.46	234.3	75.01%	1.12	83.20%	204.89	75.46%	1.48	76.15%	239.90
1982	LDGV	6	139.75	1.66	153.55	1.95	3	50.00%	23.2	0.06	38.07	0.24	92.17	79.89%	0.28	82.35%	132.67	77.70%	1.43	85.77%	0.00
	HDGT	43	631.17	2.51	333.37	1.82	26	60.47%	177.5	0.84	89.68	1.13	407.32	69.65%	0.99	53.98%	200.35	69.08%	0.2	14.84%	150.00
1982 Total		49	571	2.4	311.35	1.84	29	59.18%	161.54	0.76	84.34	1.04	374.71	69.88%	0.91	54.58%	193.34	69.63%	0.32	23.78%	150.00
1983	LDGV	14	166.61	1.35	121.06	1.28	9	64.29%	78.01	0.32	63.63	0.34	86.04	52.45%	1.1	77.44%	54.33	46.06%	0.95	73.90%	0.00
	LDGT	3	0	0	0	0	0	0.00%	0	0	0	0	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0.00
	HDGT	78	786.32	2.86	330.11	1.79	42	53.85%	200.83	1.18	113.43	1.09	487.06	70.80%	2.33	66.34%	178.2	61.10%	0.98	47.43%	0.00
1983 Total		95	670.16	2.55	288.88	1.66	51	53.68%	179.16	1.03	104.65	0.95	416.29	69.91%	2.12	67.22%	156.35	59.90%	0.98	50.55%	0.00
1984	LDGV	7	134.81	1.22	103.31	1.39	6	85.71%	82.18	0.47	75.7	0.74	46	35.89%	0.75	61.78%	22.52	22.93%	0.73	49.77%	0.00
	LDGT	5	185.92	1.87	234.44	4.31	3	60.00%	76.67	0.42	40.5	0.4	171.67	69.13%	2.52	85.83%	256.47	86.36%	4.83	92.42%	0.00
	HDGT	94	713.05	2.45	380.49	1.83	52	55.32%	208.56	1	121.37	1.08	387.47	65.01%	1.4	58.32%	147.99	54.94%	0.69	38.91%	0.00
1984 Total		106	650	2.34	355.3	1.92	61	57.55%	189.64	0.92	112.9	1.01	343.27	64.41%	1.39	60.22%	140.99	55.53%	0.9	46.93%	0.00

Vehicle		Initial Exhaust Emissions					Passing Retest Exhaust Emissions						Emission Reductions								Average Repair Costs
Year	Type	Total	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Avg HC Idle	Avg HC% Idle	Avg CO Idle	Avg CO% Idle	Avg HC 2500rpm	Avg HC% 2500 rpm	Avg CO 2500 rpm	Avg CO% 2500 rpm	
1985	LDGV	9	283.87	0.4	168.63	0.35	6	66.67%	62.27	0.19	52.53	0.28	154.27	71.24%	-0.05	-33.72%	97.18	64.91%	-0.09	-48.65%	0.00
	LDGT	4	372.43	4.21	228.65	3.05	2	50.00%	83.55	0.19	92.45	0.3	158.45	65.48%	2.2	92.23%	102.85	52.66%	2.41	88.93%	0.00
	HDGT	106	722.74	2.48	399.74	1.67	74	69.81%	166.75	0.89	103.49	0.97	471	73.85%	1.44	61.88%	290.82	73.75%	0.82	45.78%	297.00
1985 Total		119	677.77	2.38	376.51	1.62	82	68.91%	157.08	0.82	99.49	0.9	440.2	73.70%	1.35	62.23%	272.06	73.22%	0.79	46.72%	297.00
1986	LDGV	8	683.11	6.8	457.24	5.7	3	37.50%	42.43	0.05	31	0.34	249.2	85.45%	3.61	98.63%	153	83.15%	3.28	90.70%	0.00
	LDGT	2	330.2	1.14	288.7	1.41	1	50.00%	69.8	0.13	82.2	0.69	-15.8	-29.26%	-0.07	-116.67%	-6.1	-8.02%	-0.03	-4.55%	0.00
	HDGT	191	506.59	2.08	301.61	1.69	91	47.64%	108.61	0.7	91.2	0.9	375.01	77.54%	1.38	66.24%	220.82	70.77%	0.7	43.64%	245.25
1986 Total		201	511.86	2.26	307.68	1.85	95	47.26%	106.11	0.68	89.21	0.88	366.93	77.57%	1.43	67.96%	216.29	70.80%	0.77	46.70%	245.25
1987	LDGV	11	89.95	0.45	67.83	0.28	7	63.64%	42.76	0.13	46.39	0.33	41.94	49.52%	0.34	71.82%	12.7	21.49%	-0.07	-27.37%	0.00
	LDGT	5	229.8	0.41	90.8	0.33	5	100.00%	46.18	0.11	40.5	0.28	183.62	79.90%	0.3	72.46%	50.3	55.40%	0.05	15.34%	0.00
	HDGT	122	562.68	2.29	314.33	1.96	72	59.02%	124.02	0.59	78.14	0.73	334.15	72.93%	1.26	67.98%	195.15	71.41%	0.66	47.39%	311.17
1987 Total		138	512.94	2.07	286.58	1.77	84	60.87%	112.61	0.53	73.25	0.67	300.84	72.76%	1.13	68.14%	171.33	70.05%	0.56	45.59%	311.17
1988	LDGV	3	110.93	2.52	76.93	2.97	1	33.33%	24.8	0.61	21.4	1.02	141.6	85.10%	3.17	83.86%	94	81.46%	3.44	77.13%	0.00
	LDGT	10	111.79	0.51	53.81	0.28	9	90.00%	114.4	0.33	75.24	0.39	9.81	7.90%	0.23	41.42%	-15.46	-25.85%	-0.08	-26.07%	0.00
	HDGT	117	682.85	2.73	455.48	2.01	63	53.85%	98.78	0.46	79.48	0.6	462.34	82.40%	2.01	81.36%	308.01	79.49%	1.44	70.60%	0.00
1988 Total		130	625.72	2.55	415.85	1.9	73	56.15%	99.69	0.45	78.16	0.58	402.15	80.13%	1.81	80.19%	265.2	77.24%	1.28	68.82%	0.00
1989	LDGV	3	237.53	0.31	131.2	0.51	3	100.00%	72.9	0.17	118.33	0.46	164.63	69.31%	0.14	45.65%	12.87	9.81%	0.05	10.46%	0.00
	LDGT	16	263.74	0.47	169.85	0.53	12	75.00%	65.73	0.24	73.07	0.29	173.67	72.54%	0.23	48.75%	76.82	51.25%	0.19	39.90%	0.00
	HDGT	161	610.49	2.3	383.73	1.66	93	57.76%	117.9	0.56	98.61	0.7	341.33	74.33%	1.65	74.66%	225.51	69.58%	0.87	55.37%	411.67
1989 Total		180	573.45	2.1	360.51	1.54	108	60.00%	110.85	0.51	96.32	0.65	317.79	74.14%	1.45	73.86%	203.08	67.83%	0.77	54.34%	411.67
1990	LDGV	9	478.84	0.72	346.42	1.33	6	66.67%	174.9	0.32	94.43	0.81	238.07	57.65%	0.31	48.81%	184.3	66.12%	0.27	25.19%	200.00
	LDGT	23	715.78	2.28	625.79	2.08	15	65.22%	69.4	0.25	60.67	0.23	253.53	78.51%	0.1	28.96%	126.8	67.64%	0.21	47.83%	0.00
	HDGT	136	529.97	3.16	301.45	1.92	75	55.15%	126.78	0.53	143.38	0.92	371.35	74.55%	2.52	82.62%	128.03	47.17%	0.91	49.60%	193.50
1990 Total		168	552.67	2.91	348.26	1.91	96	57.14%	120.82	0.47	127.4	0.81	344.61	74.04%	2	80.91%	131.36	50.76%	0.76	48.47%	195.67
1991	LDGV	14	179.29	0.23	112.63	0.53	4	28.57%	53.23	0.3	57.28	0.3	-11.8	-28.49%	-0.09	-45.12%	-20.78	-56.92%	0.36	54.34%	0.00
	LDGT	20	308.57	0.3	190.83	0.24	15	75.00%	82.81	0.23	91.54	0.27	201.75	70.90%	0.09	27.97%	56.79	38.28%	0.02	5.46%	0.00
	HDGT	114	452.4	3.12	252.94	2.28	58	50.88%	110.36	0.52	110.47	0.78	282.77	71.93%	2.34	81.95%	108.88	49.64%	1.08	58.03%	271.00
1991 Total		148	407.13	2.47	231.28	1.84	77	52.03%	102.03	0.45	104.02	0.65	251.68	71.16%	1.78	79.83%	92	46.93%	0.83	56.01%	271.00
1992	LDGV	20	360.16	1.62	259.52	2.12	10	50.00%	97.76	0.25	88.56	0.25	75.67	43.63%	0.48	65.76%	79.5	47.30%	0.81	76.18%	0.00
	LDGT	18	281.5	0.36	87.67	0.36	14	77.78%	79.93	0.19	63.71	0.32	107.71	57.40%	0.13	40.50%	31.36	32.98%	0.09	22.90%	0.00
	HDGT	159	475.18	2.54	269.59	1.82	93	58.49%	121.57	0.54	96.69	0.89	295.3	70.84%	1.74	76.21%	113.64	54.03%	0.83	48.34%	176.33
1992 Total		197	445.8	2.25	251.94	1.71	117	59.39%	114.55	0.48	92.05	0.77	254.08	68.93%	1.44	75.17%	100.87	52.29%	0.74	49.19%	176.33
1993	LDGV	11	56.04	0.13	42.48	0.31	11	100.00%	49.73	0.15	53.97	0.18	6.31	11.26%	-0.03	-20.14%	-11.49	-27.05%	0.13	41.54%	0.00
	LDGT	3	208.87	0.65	92.37	0.86	1	33.33%	117	0.98	72	0.55	124	51.45%	0.14	12.50%	23	24.21%	-0.12	-27.91%	0.00
	HDGT	147	661.48	3.35	456.32	2.73	89	60.54%	102.63	0.5	77.16	0.9	400.4	79.60%	2.11	80.93%	214.04	73.50%	1.12	55.67%	180.40
1993 Total		161	611.68	3.08	421.27	2.53	101	62.73%	97.01	0.46	74.58	0.81	354.74	78.53%	1.86	80.01%	187.59	71.55%	1	55.21%	180.40
1994	LDGV	2	60.3	0.81	52	1.3	1	50.00%	49.4	0.43	46.6	0.7	10.9	18.08%	0.38	46.91%	5.4	10.38%	0.6	46.15%	0.00
	LDGT	14	217.34	0.37	69.78	0.26	11	78.57%	62.12	0.11	64.92	0.35	102.12	62.18%	0.09	45.54%	-7.52	-13.10%	-0.14	-69.78%	275.00
	HDGT	288	629.28	3.24	259.72	2.67	144	50.00%	117.66	0.63	94.6	1.02	449.17	79.24%	2.17	77.37%	147.09	60.86%	1.3	56.22%	270.00
1994 Total		304	606.56	3.09	249.6	2.55	156	51.32%	113.3	0.6	92.2	0.97	421.89	78.83%	2.01	77.13%	135.28	59.47%	1.2	55.34%	271.67
1995	LDGV	10	122.72	0.28	111.38	0.62	4	40.00%	74.95	0.18	47.28	0.27	36.78	32.92%	0.11	37.07%	-4.98	-11.76%	0.07	20.30%	0.00
	LDGT	6	127.23	0.34	100.62	0.59	6	100.00%	61.83	0.16	48.43	0.2	65.4	51.40%	0.18	52.74%	52.18	51.86%	0.39	66.57%	0.00
	HDGT	371	600.91	3.2	264.44	2.9	190	51.21%	106.57	0.55	81.94	0.99	417.31	79.66%	2.1	79.20%	130.1	61.36%	1.33	57.34%	234.00
1995 Total		387	581.21	3.08	257.95	2.8	200	51.68%	104.59	0.53	80.24	0.95	399.15	79.24%	2	79.00%	125.06	60.91%	1.28	57.31%	234.00

Vehicle		Initial Exhaust Emissions					Passing Retest Exhaust Emissions						Emission Reductions								Average Repair Costs
Year	Type	Total	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Avg HC Idle	Avg HC% Idle	Avg CO Idle	Avg CO% Idle	Avg HC 2500rpm	Avg HC% 2500 rpm	Avg CO 2500 rpm	Avg CO% 2500 rpm	
1996	LDGV	3	47.37	1.54	31.53	1.14	2	66.67%	11.55	0.07	13.55	0.23	59.5	83.74%	2.24	96.97%	33.75	71.35%	1.49	86.88%	0.00
	LDGT	1	0	0	0	0	1	100.00%	26.4	0.04	34.9	0.15	-26.4	0.00%	-0.04	0.00%	-34.9	0.00%	-0.15	0.00%	0.00
	HDGT	155	627.69	2.81	283.18	2.39	90	58.06%	93	0.41	76.49	0.62	405.04	81.33%	2.11	83.71%	146.75	65.74%	1.27	67.02%	235.00
1996 Total		159	612.79	2.77	276.65	2.35	93	58.49%	90.53	0.4	74.69	0.61	392.97	81.28%	2.09	83.96%	142.37	65.59%	1.26	67.33%	235.00
1997	LDGV	2	4.8	0.01	7.25	0.01	2	100.00%	31.4	0.1	32.35	0.09	-26.6	-554.17%	-0.09	-1800.00%	-25.1	-346.21%	-0.08	-800.00%	0.00
	LDGT	16	78.86	0.28	67.89	0.23	15	93.75%	64.73	0.16	49.93	0.28	-8.15	-14.40%	0.01	5.10%	13.55	21.34%	-0.08	-41.50%	0.00
	HDGT	120	564.01	1.92	335.28	0.93	85	70.83%	116.17	0.44	96.66	0.55	417.05	78.21%	1.54	77.88%	196.64	67.04%	0.45	45.13%	509.67
1997 Total		138	499.66	1.7	299.53	0.84	102	73.91%	106.94	0.39	88.53	0.5	345.82	76.38%	1.28	76.68%	165.36	65.13%	0.36	42.04%	509.67
1998	LDGV	3	0	0	0	0	3	100.00%	21.33	0.05	44.93	0.15	-21.33	0.00%	-0.05	0.00%	-44.93	0.00%	-0.15	0.00%	0.00
	LDGT	25	68.99	0.21	50.18	0.21	21	84.00%	76.9	0.2	46.35	0.3	-16.61	-27.55%	-0.01	-4.90%	-9.01	-24.13%	-0.11	-63.16%	150.00
	HDGT	136	752.27	1.87	344.39	1.02	82	60.29%	126.04	0.35	82.42	0.53	550.17	81.36%	1.33	79.22%	129.29	61.07%	0.31	37.00%	429.83
1998 Total		164	634.35	1.58	293.24	0.88	106	64.63%	113.34	0.31	74.21	0.47	421.71	78.82%	1.02	76.70%	96.96	56.64%	0.21	31.15%	389.86
1999	LDGV	6	235.68	1	128.08	0.25	5	83.33%	95.84	0.31	99.88	0.3	92.06	48.99%	0.51	62.20%	-0.48	-0.48%	-0.07	-28.81%	0.00
	LDGT	104	229.04	0.71	141.3	0.41	87	83.65%	57.3	0.16	39.08	0.19	108.57	65.45%	0.45	74.02%	90.24	69.78%	0.18	47.76%	0.00
	HDGT	195	727.79	1.85	258.07	0.9	115	58.97%	121.06	0.31	70.72	0.46	542.22	81.75%	1.48	82.63%	187.47	72.61%	0.45	49.22%	172.50
1999 Total		305	548.04	1.45	215.7	0.72	207	67.87%	93.65	0.25	58.13	0.34	349.09	78.85%	1.03	80.58%	142.06	70.96%	0.32	48.21%	172.50
2000	LDGV	5	12.8	0.02	18.82	0.02	5	100.00%	24.96	0.06	35.22	0.17	-12.16	-95.00%	-0.03	-133.33%	-16.4	-87.14%	-0.15	-822.22%	0.00
	LDGT	150	107.52	0.61	68.93	0.34	134	89.33%	37.04	0.12	29.44	0.13	56.62	60.45%	0.48	80.18%	25.32	46.24%	0.14	52.20%	499.00
	HDGT	131	645.14	1.93	271.08	1.12	93	70.99%	112.34	0.28	82.87	0.54	465.03	80.54%	1.69	85.63%	176.28	68.02%	0.66	54.89%	431.50
2000 Total		286	352.12	1.2	160.65	0.69	232	81.12%	66.96	0.18	50.98	0.3	218.85	76.57%	0.95	83.86%	84.93	62.49%	0.34	53.69%	454.00
2001	LDGV	8	12.86	0.08	10.59	0.02	7	87.50%	15.06	0.02	11.49	0.04	-0.36	-2.43%	0.07	76.92%	0.61	5.08%	-0.02	-82.35%	0.00
	LDGT	214	68.38	0.75	48.69	0.38	198	92.52%	30.79	0.11	25.54	0.11	33.34	51.99%	0.57	83.98%	20.8	44.88%	0.21	65.21%	526.00
	HDGT	74	505.61	1.61	257.9	1.27	58	78.38%	70.39	0.23	52.16	0.47	360.18	83.65%	1.34	85.22%	149.78	74.17%	0.72	60.29%	0.00
2001 Total		296	176.18	0.95	99.96	0.6	263	88.85%	39.11	0.13	31.04	0.19	104.52	72.77%	0.73	84.46%	48.71	61.08%	0.32	62.47%	526.00
2002	LDGV	8	77.3	0.6	92.3	1.03	6	75.00%	8.65	0.01	18.65	0.08	46.13	84.21%	0.4	97.53%	52.58	73.82%	0.74	90.76%	0.00
	LDGT	218	115.27	0.96	85.64	0.64	189	86.70%	37.59	0.15	28	0.14	65.28	63.45%	0.73	83.46%	46.56	62.45%	0.39	73.85%	251.00
	HDGT	52	518.19	1.52	295.49	1.04	43	82.69%	121.3	0.35	106.87	0.76	389.21	76.24%	1.09	75.75%	216.08	66.91%	0.39	33.95%	0.00
2002 Total		278	189.54	1.05	125.08	0.72	238	85.61%	51.99	0.18	42.01	0.25	123.32	70.34%	0.79	81.54%	77.34	64.80%	0.4	61.49%	251.00
2003	LDGV	11	37.02	0.32	24.62	0.19	11	100.00%	30.9	0.06	29.46	0.16	6.12	16.53%	0.26	80.63%	-4.85	-19.68%	0.03	17.14%	0.00
	LDGT	147	85.82	0.77	47.27	0.4	143	97.28%	32.59	0.12	25.39	0.14	50.37	60.72%	0.61	83.39%	20.16	44.26%	0.22	61.78%	250.00
	HDGT	50	417.79	1.93	187.97	1.26	43	86.00%	68.5	0.3	42.3	0.24	317.63	82.26%	1.8	85.82%	149.84	77.99%	1.06	81.49%	1.00
2003 Total		208	163.04	1.02	79.89	0.6	197	94.71%	40.33	0.16	29.31	0.16	106.24	72.48%	0.85	84.44%	47.07	61.63%	0.39	71.06%	125.50
2004	LDGV	26	49.25	0.25	40.46	0.46	19	73.08%	33.64	0.12	33.04	0.21	19.13	36.26%	0.18	58.88%	11.88	26.44%	0.3	59.18%	0.00
	LDGT	128	108.1	0.44	53.98	0.22	114	89.06%	24.72	0.11	17.26	0.07	33.38	57.45%	0.21	65.96%	15.8	47.80%	0.1	59.17%	0.00
	HDGT	13	197.55	1.12	91.02	1.41	13	100.00%	37.49	0.13	47.02	0.59	160.06	81.02%	0.99	88.50%	44.01	48.35%	0.82	58.29%	0.00
2004 Total		167	105.9	0.46	54.76	0.35	146	87.43%	27.02	0.11	21.96	0.14	42.81	61.30%	0.28	70.99%	17.8	44.77%	0.19	58.84%	0.00
2005	LDGV	21	52.87	0.36	52.68	0.61	17	80.95%	63.51	0.19	74.2	0.73	1.8	2.76%	0.25	56.37%	-9.12	-14.02%	0.02	3.10%	0.00
	LDGT	104	33.84	0.13	46.71	0.16	99	95.19%	16.75	0.06	15.47	0.07	13.67	44.93%	0.06	52.29%	15.85	50.62%	0.07	51.77%	202.00
	HDGT	15	420.11	0.98	122.67	0.67	13	86.67%	43.62	0.2	21.94	0.17	350.28	88.93%	0.87	81.43%	93.58	81.01%	0.59	78.19%	0.00
2005 Total		140	78.08	0.26	55.74	0.29	129	92.14%	25.62	0.09	23.86	0.17	46.02	64.24%	0.17	65.20%	20.4	46.09%	0.12	41.83%	202.00
2006	LDGV	18	158.05	0.96	92.58	1.17	11	61.11%	24.03	0.12	38.66	0.14	230.48	90.56%	1.4	92.24%	106.08	73.29%	1.65	91.97%	0.00
	LDGT	62	12.49	0.06	11.99	0.04	60	96.77%	12.22	0.02	12.39	0.04	0.6	4.65%	0.04	69.53%	-0.15	-1.18%	0	8.66%	0.00
	HDGT	15	631.83	0.67	530.54	0.27	13	86.67%	49.07	0.06	32.35	0.11	475.03	90.64%	0.46	88.27%	383.75	92.22%	0.08	41.67%	25.00
2006 Total		95	137.86	0.33	109.13	0.29	84	88.42%	19.47	0.04	18.92	0.06	104.13	84.25%	0.29	88.23%	73.18	79.45%	0.23	78.35%	25.00

Vehicle		Initial Exhaust Emissions					Passing Retest Exhaust Emissions						Emission Reductions								Average Repair Costs
Year	Type	Total	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Avg HC Idle	Avg HC% Idle	Avg CO Idle	Avg CO% Idle	Avg HC 2500rpm	Avg HC% 2500 rpm	Avg CO 2500 rpm	Avg CO% 2500 rpm	
2007	LDGV	8	32.64	0.04	37.76	0.57	6	75.00%	21.85	0.12	37.52	0.16	15.7	41.81%	-0.07	-125.00%	-0.95	-2.60%	0.34	68.14%	0.00
	LDGT	61	14.81	0.07	17.86	0.46	56	91.80%	5.59	0.02	7.06	0.03	3.34	37.40%	0.02	42.62%	4.94	41.13%	0.15	83.69%	0.00
	HDGT	8	834.33	2.64	808.85	2.29	8	100.00%	114.88	0.4	79.08	0.39	719.45	86.23%	2.24	84.88%	729.78	90.22%	1.91	83.15%	0.00
2007 Total		77	101.81	0.34	102.11	0.66	70	90.91%	19.48	0.08	17.9	0.08	86.24	81.58%	0.26	77.85%	87.27	82.98%	0.36	81.89%	0.00
2008	LDGV	12	165.27	0.95	78.89	1.66	11	91.67%	30.15	0.11	24.05	0.16	150.15	83.28%	0.92	89.07%	62.02	72.06%	1.65	91.01%	0.00
	LDGT	27	18.78	0.4	29.73	0.38	26	96.30%	9.27	0.04	9.55	0.07	8.62	48.17%	0.27	88.10%	20.92	68.67%	0.31	80.99%	0.00
	HDGT	2	13.5	1.07	8.75	0.46	2	100.00%	18.7	0.02	527.75	0.4	-5.2	-38.52%	1.05	98.59%	-519	-5931.43%	0.06	13.19%	0.00
2008 Total		41	61.4	0.59	43.09	0.76	39	95.12%	15.64	0.06	40.21	0.11	47.83	75.36%	0.5	89.65%	4.83	10.72%	0.67	85.46%	0.00
2009	LDGV	3	4.07	0.07	11.57	0.48	3	100.00%	20.1	0.18	19.33	0.29	-16.03	-394.26%	-0.11	-145.45%	-7.77	-67.15%	0.19	39.16%	0.00
	LDGT	27	17.66	0.11	22.87	0.36	25	92.59%	4.54	0.02	5.6	0.02	12.52	73.41%	0.06	77.54%	15.64	73.62%	0.19	91.78%	0.00
	HDGT	2	40.35	0.08	6.25	0.04	2	100.00%	19.75	0.03	6.4	0.06	20.6	51.05%	0.06	68.75%	-0.15	-2.40%	-0.02	-37.50%	0.00
2009 Total		32	17.8	0.11	20.78	0.35	30	93.75%	7.11	0.03	7.03	0.05	10.2	58.94%	0.04	55.11%	12.25	63.53%	0.18	79.08%	0.00
2010	LDGV	4	54	1.19	37.7	1.09	3	75.00%	11.83	0.01	20.43	0.27	60.17	83.56%	1.58	99.58%	29.83	59.35%	1.19	81.65%	0.00
	LDGT	8	1.25	0.02	3.73	0.02	7	87.50%	12.99	0.09	5.74	0.04	-11.71	-921.35%	-0.07	-276.47%	-1.69	-41.55%	-0.02	-145.45%	0.00
	HDGT	2	168.5	0	63	0	1	50.00%	168	0	117	0	169	50.15%	0		9	7.14%	0	0.00%	0.00
2010 Total		14	40.21	0.35	21.9	0.32	11	78.57%	26.76	0.06	19.86	0.1	24.32	47.61%	0.39	86.64%	7.88	28.41%	0.31	76.06%	0.00
2011	LDGT	4	0.23	0.02	0.58	0.01	4	100.00%	3.47	0.02	6.45	0.03	-3.25	-1444.44%	0	0.00%	-5.88	-1021.74%	-0.02	-225.00%	0.00
	HDGT	1	0.6	0.01	2.2	0.01	1	100.00%	0.5	0	1.9	0	0.1	16.67%	0.01	100.00%	0.3	13.64%	0.01	100.00%	0.00
2011 Total		5	0.3	0.01	0.9	0.01	5	100.00%	2.88	0.01	5.54	0.03	-2.58	-860.00%	0	14.29%	-4.64	-515.56%	-0.02	-160.00%	0.00
Grand Total		9217	495.83	2.35	311.05	2.01	5992	65.01%	136.7	0.58	121.74	1.06	271.24	66.49%	1.46	71.53%	129.5	51.54%	0.62	37.06%	245.29

Summary by Vehicle Type (V1.01)

Vehicle Type	Initial Exhaust Emissions					Passing Retest Exhaust Emissions						Emission Reductions								Average Repair Costs
	Total	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Avg HC Idle	Avg HC % Idle	Avg CO Idle	Avg CO % Idle	Avg HC 2500 rpm	Avg HC % 2500 rpm	Avg CO 2500 rpm	Avg CO % 2500 rpm	
LDGV	2043	448.18	2.55	336.74	2.56	1241	60.74%	157.46	0.58	150.39	1.38	220.48	58.34%	1.74	75.12%	121.38	44.66%	0.79	36.28%	210.40
LDGT	3228	313.29	1.61	220.26	1.52	2317	71.78%	86.58	0.29	85.94	0.73	145.34	62.67%	0.97	77.12%	78.39	47.70%	0.42	36.62%	247.11
HDGT	3946	669.83	2.86	372.03	2.13	2434	61.68%	173.83	0.87	141.22	1.2	416.98	70.58%	1.79	67.43%	182.3	56.35%	0.73	37.76%	255.82
Grand Total	9217	495.83	2.35	311.05	2.01	5992	65.01%	136.7	0.58	121.74	1.06	271.24	66.49%	1.46	71.53%	129.5	51.54%	0.62	37.06%	245.29

Appendix Q

Idle Retest Frequency Report

Idle Retest Frequency Report (V1.01)

Vehicle			Avg Retest	Retest #1				Retest #2				Retest #3				Retest #4				Retest >= #5			
Year	Type	Total	#	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt %	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%
1974	LDGV	342	1.3	259	75.73%	181	69.88%	64	18.71%	40	62.50%	14	4.09%	8	57.14%	5	1.46%	3	60.00%	0	0	0	0.00%
	LDGT	200	1.2	157	78.50%	116	73.89%	27	13.50%	16	59.26%	7	3.50%	2	28.57%	4	2.00%	1	25.00%	5	3	2	40.00%
	HDGT	82	1.2	66	80.49%	54	81.82%	13	15.85%	10	76.92%	3	3.66%	2	66.67%	0	0.00%	0	0.00%	0	0	0	0.00%
1974 Total		624	1.3	482	77.24%	351	72.82%	104	16.67%	66	63.46%	24	3.85%	12	50.00%	9	1.44%	4	44.44%	5	1	2	40.00%
1975	LDGV	17	1.2	15	88.24%	11	73.33%	1	5.88%	0	0.00%	1	5.88%	1	100.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	LDGT	21	1.3	17	80.95%	10	58.82%	4	19.05%	4	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	HDGT	24	1.1	21	87.50%	16	76.19%	3	12.50%	2	66.67%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
1975 Total		62	1.2	53	85.48%	37	69.81%	8	12.90%	6	75.00%	1	1.61%	1	100.00%	0	0.00%	0	0.00%	0	0	0	0.00%
1976	LDGV	182	1.5	125	68.68%	90	72.00%	29	15.93%	16	55.17%	14	7.69%	8	57.14%	5	2.75%	3	60.00%	9	5	2	22.22%
	LDGT	141	1.4	103	73.05%	69	66.99%	28	19.86%	19	67.86%	8	5.67%	4	50.00%	2	1.42%	2	100.00%	0	0	0	0.00%
	HDGT	148	1.3	111	75.00%	81	72.97%	27	18.24%	15	55.56%	7	4.73%	2	28.57%	3	2.03%	2	66.67%	0	0	0	0.00%
1976 Total		471	1.4	339	71.97%	240	70.80%	84	17.83%	50	59.52%	29	6.16%	14	48.28%	10	2.12%	7	70.00%	9	2	2	22.22%
1977	LDGV	187	1.3	138	73.80%	94	68.12%	35	18.72%	18	51.43%	12	6.42%	6	50.00%	2	1.07%	2	100.00%	0	0	0	0.00%
	LDGT	107	1.4	76	71.03%	48	63.16%	19	17.76%	12	63.16%	5	4.67%	2	40.00%	2	1.87%	0	0.00%	5	5	2	40.00%
	HDGT	190	1.3	146	76.84%	111	76.03%	31	16.32%	20	64.52%	9	4.74%	7	77.78%	2	1.05%	0	0.00%	2	1	1	50.00%
1977 Total		484	1.3	360	74.38%	253	70.28%	85	17.56%	50	58.82%	26	5.37%	15	57.69%	6	1.24%	2	33.33%	7	1	3	42.86%
1978	LDGV	290	1.4	207	71.38%	141	68.12%	50	17.24%	30	60.00%	17	5.86%	9	52.94%	7	2.41%	2	28.57%	9	3	3	33.33%
	LDGT	180	1.5	118	65.56%	75	63.56%	37	20.56%	22	59.46%	12	6.67%	8	66.67%	3	1.67%	0	0.00%	10	6	2	20.00%
	HDGT	257	1.3	193	75.10%	148	76.68%	38	14.79%	20	52.63%	16	6.23%	10	62.50%	5	1.95%	1	20.00%	5	2	4	80.00%
1978 Total		727	1.4	518	71.25%	364	70.27%	125	17.19%	72	57.60%	45	6.19%	27	60.00%	15	2.06%	3	20.00%	24	3	9	37.50%
1979	LDGV	311	1.5	206	66.24%	140	67.96%	53	17.04%	28	52.83%	24	7.72%	10	41.67%	14	4.50%	7	50.00%	14	5	4	28.57%
	LDGT	478	1.5	322	67.36%	215	66.77%	90	18.83%	51	56.67%	34	7.11%	19	55.88%	14	2.93%	6	42.86%	18	4	5	27.78%
	HDGT	61	1.4	45	73.77%	33	73.33%	13	21.31%	11	84.62%	2	3.28%	2	100.00%	1	1.64%	1	100.00%	0	0	0	0.00%
1979 Total		850	1.5	573	67.41%	388	67.71%	156	18.35%	90	57.69%	60	7.06%	31	51.67%	29	3.41%	14	48.28%	32	4	9	28.13%
1980	LDGV	149	1.4	102	68.46%	63	61.76%	30	20.13%	14	46.67%	12	8.05%	8	66.67%	4	2.68%	2	50.00%	1	1	0	0.00%
	LDGT	186	1.4	130	69.89%	80	61.54%	41	22.04%	24	58.54%	13	6.99%	8	61.54%	2	1.08%	0	0.00%	0	0	0	0.00%
	HDGT	33	1.3	26	78.79%	21	80.77%	5	15.15%	3	60.00%	2	6.06%	2	100.00%	0	0.00%	0	0.00%	0	0	0	0.00%
1980 Total		368	1.4	258	70.11%	164	63.57%	76	20.65%	41	53.95%	27	7.34%	18	66.67%	6	1.63%	2	33.33%	1	0	0	0.00%
1981	LDGV	300	1.8	143	47.67%	70	48.95%	64	21.33%	19	29.69%	41	13.67%	9	21.95%	22	7.33%	5	22.73%	30	10	9	30.00%
	LDGT	490	1.9	236	48.16%	125	52.97%	105	21.43%	52	49.52%	52	10.61%	20	38.46%	31	6.33%	11	35.48%	66	13	12	18.18%
	HDGT	53	1.3	36	67.92%	24	66.67%	8	15.09%	5	62.50%	3	5.66%	1	33.33%	1	1.89%	1	100.00%	5	9	0	0.00%
1981 Total		843	1.8	415	49.23%	219	52.77%	177	21.00%	76	42.94%	96	11.39%	30	31.25%	54	6.41%	17	31.48%	101	12	21	20.79%
1982	LDGV	6	1.3	5	83.33%	2	40.00%	1	16.67%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	LDGT	0	0	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%

Vehicle			Avg Retest #	Retest #1				Retest #2				Retest #3				Retest #4				Retest >= #5			
Year	Type	Total		Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt %	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%
	HDGT	43	1.6	29	67.44%	19	65.52%	6	13.95%	2	33.33%	5	11.63%	3	60.00%	2	4.65%	1	50.00%	1	2	1	100.00%
1982 Total		49	1.6	34	69.39%	21	61.76%	7	14.29%	3	42.86%	5	10.20%	3	60.00%	2	4.08%	1	50.00%	1	2	1	100.00%
1983	LDGV	14	2.2	7	50.00%	4	57.14%	4	28.57%	3	75.00%	1	7.14%	1	100.00%	0	0.00%	0	0.00%	2	14	1	50.00%
	LDGT	3	0	1	33.33%	0	0.00%	0	0.00%	0	0.00%	1	33.33%	0	0.00%	1	33.33%	0	0.00%	0	0	0	0.00%
	HDGT	78	1.4	50	64.10%	31	62.00%	17	21.79%	7	41.18%	8	10.26%	3	37.50%	0	0.00%	0	0.00%	3	4	1	33.33%
1983 Total		95	1.6	58	61.05%	35	60.34%	21	22.11%	10	47.62%	10	10.53%	4	40.00%	1	1.05%	0	0.00%	5	5	2	40.00%
1984	LDGV	7	2.3	3	42.86%	2	66.67%	2	28.57%	2	100.00%	1	14.29%	1	100.00%	0	0.00%	0	0.00%	1	14	1	100.00%
	LDGT	5	1.3	4	80.00%	2	50.00%	1	20.00%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	HDGT	94	1.8	53	56.38%	33	62.26%	18	19.15%	9	50.00%	10	10.64%	4	40.00%	6	6.38%	2	33.33%	7	7	4	57.14%
1984 Total		106	1.8	60	56.60%	37	61.67%	21	19.81%	12	57.14%	11	10.38%	5	45.45%	6	5.66%	2	33.33%	8	8	5	62.50%
1985	LDGV	9	1.7	5	55.56%	4	80.00%	3	33.33%	1	33.33%	0	0.00%	0	0.00%	1	11.11%	1	100.00%	0	0	0	0.00%
	LDGT	4	1.5	3	75.00%	1	33.33%	1	25.00%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	HDGT	106	1.3	81	76.42%	58	71.60%	18	16.98%	12	66.67%	5	4.72%	3	60.00%	1	0.94%	0	0.00%	1	1	1	100.00%
1985 Total		119	1.4	89	74.79%	63	70.79%	22	18.49%	14	63.64%	5	4.20%	3	60.00%	2	1.68%	1	50.00%	1	1	1	100.00%
1986	LDGV	8	2	3	37.50%	1	33.33%	3	37.50%	1	33.33%	2	25.00%	1	50.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	LDGT	2	1	2	100.00%	1	50.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	HDGT	191	1.8	105	54.97%	49	46.67%	50	26.18%	25	50.00%	20	10.47%	6	30.00%	13	6.81%	8	61.54%	3	2	3	100.00%
1986 Total		201	1.8	110	54.73%	51	46.36%	53	26.37%	26	49.06%	22	10.95%	7	31.82%	13	6.47%	8	61.54%	3	1	3	100.00%
1987	LDGV	11	2.1	5	45.45%	1	20.00%	4	36.36%	4	100.00%	2	18.18%	2	100.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	LDGT	5	1.2	4	80.00%	4	100.00%	1	20.00%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	HDGT	122	1.6	74	60.66%	47	63.51%	24	19.67%	13	54.17%	15	12.30%	8	53.33%	5	4.10%	3	60.00%	4	3	1	25.00%
1987 Total		138	1.6	83	60.14%	52	62.65%	29	21.01%	18	62.07%	17	12.32%	10	58.82%	5	3.62%	3	60.00%	4	3	1	25.00%
1988	LDGV	3	3	0	0.00%	0	0.00%	1	33.33%	0	0.00%	2	66.67%	1	50.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	LDGT	10	1	10	100.00%	9	90.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	HDGT	117	1.8	70	59.83%	36	51.43%	26	22.22%	15	57.69%	11	9.40%	5	45.45%	6	5.13%	4	66.67%	4	3	3	75.00%
1988 Total		130	1.7	80	61.54%	45	56.25%	27	20.77%	15	55.56%	13	10.00%	6	46.15%	6	4.62%	4	66.67%	4	3	3	75.00%
1989	LDGV	3	1	3	100.00%	3	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	LDGT	16	1.3	13	81.25%	9	69.23%	2	12.50%	2	100.00%	1	6.25%	1	100.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	HDGT	161	1.4	105	65.22%	66	62.86%	34	21.12%	18	52.94%	13	8.07%	7	53.85%	3	1.86%	1	33.33%	6	4	1	16.67%
1989 Total		180	1.4	121	67.22%	78	64.46%	36	20.00%	20	55.56%	14	7.78%	8	57.14%	3	1.67%	1	33.33%	6	3	1	16.67%
1990	LDGV	9	1.5	6	66.67%	3	50.00%	3	33.33%	3	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	LDGT	23	1	17	73.91%	15	88.24%	1	4.35%	0	0.00%	1	4.35%	0	0.00%	3	13.04%	0	0.00%	1	4	0	0.00%
	HDGT	136	1.7	72	52.94%	41	56.94%	38	27.94%	19	50.00%	17	12.50%	10	58.82%	6	4.41%	4	66.67%	3	2	1	33.33%
1990 Total		168	1.6	95	56.55%	59	62.11%	42	25.00%	22	52.38%	18	10.71%	10	55.56%	9	5.36%	4	44.44%	4	2	1	25.00%
	LDGV	14	1.8	5	35.71%	2	40.00%	2	14.29%	1	50.00%	2	14.29%	1	50.00%	1	7.14%	0	0.00%	4	29	0	0.00%

Vehicle			Avg Retest #	Retest #1				Retest #2				Retest #3				Retest #4				Retest >= #5			
Year	Type	Total		Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt %	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%
1991	LDGT	20	1.3	16	80.00%	12	75.00%	3	15.00%	2	66.67%	1	5.00%	1	100.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	HDGT	114	1.6	67	58.77%	36	53.73%	26	22.81%	13	50.00%	11	9.65%	5	45.45%	5	4.39%	3	60.00%	5	4	1	20.00%
1991 Total		148	1.6	88	59.46%	50	56.82%	31	20.95%	16	51.61%	14	9.46%	7	50.00%	6	4.05%	3	50.00%	9	6	1	11.11%
1992	LDGV	20	2	10	50.00%	5	50.00%	5	25.00%	3	60.00%	2	10.00%	0	0.00%	1	5.00%	1	100.00%	2	10	1	50.00%
	LDGT	18	1.2	14	77.78%	12	85.71%	2	11.11%	1	50.00%	1	5.56%	1	100.00%	0	0.00%	0	0.00%	1	6	0	0.00%
	HDGT	159	1.5	102	64.15%	65	63.73%	35	22.01%	19	54.29%	13	8.18%	4	30.77%	6	3.77%	3	50.00%	3	2	2	66.67%
1992 Total		197	1.5	126	63.96%	82	65.08%	42	21.32%	23	54.76%	16	8.12%	5	31.25%	7	3.55%	4	57.14%	6	3	3	50.00%
1993	LDGV	11	1.1	10	90.91%	10	100.00%	1	9.09%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	LDGT	3	1	2	66.67%	1	50.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	33	0	0.00%
	HDGT	147	1.4	99	67.35%	66	66.67%	26	17.69%	14	53.85%	11	7.48%	8	72.73%	3	2.04%	0	0.00%	8	5	1	12.50%
1993 Total		161	1.4	111	68.94%	77	69.37%	27	16.77%	15	55.56%	11	6.83%	8	72.73%	3	1.86%	0	0.00%	9	6	1	11.11%
1994	LDGV	2	2	1	50.00%	0	0.00%	1	50.00%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	LDGT	14	1.2	11	78.57%	9	81.82%	2	14.29%	2	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	7	0	0.00%
	HDGT	288	1.9	147	51.04%	89	60.54%	56	19.44%	26	46.43%	32	11.11%	12	37.50%	21	7.29%	7	33.33%	32	11	10	31.25%
1994 Total		304	1.8	159	52.30%	98	61.64%	59	19.41%	29	49.15%	32	10.53%	12	37.50%	21	6.91%	7	33.33%	33	11	10	30.30%
1995	LDGV	10	4.5	5	50.00%	2	40.00%	1	10.00%	0	0.00%	1	10.00%	0	0.00%	2	20.00%	1	50.00%	1	10	1	100.00%
	LDGT	6	1.3	5	83.33%	5	100.00%	0	0.00%	0	0.00%	1	16.67%	1	100.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	HDGT	371	1.8	199	53.64%	127	63.82%	68	18.33%	30	44.12%	41	11.05%	16	39.02%	21	5.66%	7	33.33%	42	11	10	23.81%
1995 Total		387	1.8	209	54.01%	134	64.11%	69	17.83%	30	43.48%	43	11.11%	17	39.53%	23	5.94%	8	34.78%	43	11	11	25.58%
1996	LDGV	3	2.5	1	33.33%	1	100.00%	1	33.33%	0	0.00%	0	0.00%	0	0.00%	1	33.33%	1	100.00%	0	0	0	0.00%
	LDGT	1	5	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	100	1	100.00%
	HDGT	155	1.6	92	59.35%	60	65.22%	34	21.94%	14	41.18%	17	10.97%	10	58.82%	7	4.52%	2	28.57%	5	3	4	80.00%
1996 Total		159	1.7	93	58.49%	61	65.59%	35	22.01%	14	40.00%	17	10.69%	10	58.82%	8	5.03%	3	37.50%	6	4	5	83.33%
1997	LDGV	2	1	2	100.00%	2	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	LDGT	16	1.2	14	87.50%	13	92.86%	1	6.25%	1	100.00%	1	6.25%	1	100.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	HDGT	120	1.4	84	70.00%	67	79.76%	19	15.83%	9	47.37%	9	7.50%	4	44.44%	5	4.17%	3	60.00%	3	3	2	66.67%
1997 Total		138	1.4	100	72.46%	82	82.00%	20	14.49%	10	50.00%	10	7.25%	5	50.00%	5	3.62%	3	60.00%	3	2	2	66.67%
1998	LDGV	3	1.7	1	33.33%	1	100.00%	2	66.67%	2	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	LDGT	25	2	12	48.00%	10	83.33%	8	32.00%	6	75.00%	3	12.00%	3	100.00%	0	0.00%	0	0.00%	2	8	2	100.00%
	HDGT	136	1.5	90	66.18%	58	64.44%	27	19.85%	17	62.96%	8	5.88%	2	25.00%	6	4.41%	3	50.00%	5	4	2	40.00%
1998 Total		164	1.6	103	62.80%	69	66.99%	37	22.56%	25	67.57%	11	6.71%	5	45.45%	6	3.66%	3	50.00%	7	4	4	57.14%
1999	LDGV	6	1.2	5	83.33%	4	80.00%	1	16.67%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	LDGT	104	1.3	84	80.77%	72	85.71%	13	12.50%	9	69.23%	6	5.77%	5	83.33%	1	0.96%	1	100.00%	0	0	0	0.00%
	HDGT	195	1.6	119	61.03%	77	64.71%	38	19.49%	20	52.63%	18	9.23%	10	55.56%	9	4.62%	4	44.44%	11	6	4	36.36%
1999 Total		305	1.5	208	68.20%	153	73.56%	52	17.05%	30	57.69%	24	7.87%	15	62.50%	10	3.28%	5	50.00%	11	4	4	36.36%

Vehicle			Avg Retest #	Retest #1				Retest #2				Retest #3				Retest #4				Retest >= #5			
Year	Type	Total		Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt %	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%
2000	LDGV	5	1.6	3	60.00%	3	100.00%	1	20.00%	1	100.00%	1	20.00%	1	100.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	LDGT	150	1.1	134	89.33%	123	91.79%	10	6.67%	6	60.00%	4	2.67%	3	75.00%	1	0.67%	1	100.00%	1	1	1	100.00%
	HDGT	131	1.4	97	74.05%	69	71.13%	24	18.32%	18	75.00%	7	5.34%	3	42.86%	3	2.29%	3	100.00%	0	0	0	0.00%
2000 Total		286	1.2	234	81.82%	195	83.33%	35	12.24%	25	71.43%	12	4.20%	7	58.33%	4	1.40%	4	100.00%	1	0	1	100.00%
2001	LDGV	8	1.1	7	87.50%	6	85.71%	1	12.50%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	LDGT	214	1.1	200	93.46%	185	92.50%	13	6.07%	12	92.31%	1	0.47%	1	100.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	HDGT	74	1.2	60	81.08%	51	85.00%	9	12.16%	5	55.56%	3	4.05%	1	33.33%	2	2.70%	1	50.00%	0	0	0	0.00%
2001 Total		296	1.1	267	90.20%	242	90.64%	23	7.77%	18	78.26%	4	1.35%	2	50.00%	2	0.68%	1	50.00%	0	0	0	0.00%
2002	LDGV	8	1.3	6	75.00%	4	66.67%	2	25.00%	2	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	LDGT	218	1.2	188	86.24%	166	88.30%	23	10.55%	19	82.61%	5	2.29%	3	60.00%	1	0.46%	0	0.00%	1	0	1	100.00%
	HDGT	52	1.2	44	84.62%	36	81.82%	7	13.46%	6	85.71%	1	1.92%	1	100.00%	0	0.00%	0	0.00%	0	0	0	0.00%
2002 Total		278	1.2	238	85.61%	206	86.55%	32	11.51%	27	84.38%	6	2.16%	4	66.67%	1	0.36%	0	0.00%	1	0	1	100.00%
2003	LDGV	11	1.2	9	81.82%	9	100.00%	2	18.18%	2	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	LDGT	147	1	142	96.60%	139	97.89%	4	2.72%	3	75.00%	1	0.68%	1	100.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	HDGT	50	1.1	44	88.00%	39	88.64%	5	10.00%	3	60.00%	0	0.00%	0	0.00%	1	2.00%	1	100.00%	0	0	0	0.00%
2003 Total		208	1.1	195	93.75%	187	95.90%	11	5.29%	8	72.73%	1	0.48%	1	100.00%	1	0.48%	1	100.00%	0	0	0	0.00%
2004	LDGV	26	1.6	18	69.23%	14	77.78%	3	11.54%	2	66.67%	2	7.69%	1	50.00%	1	3.85%	0	0.00%	2	8	2	100.00%
	LDGT	128	1.1	116	90.63%	106	91.38%	8	6.25%	6	75.00%	2	1.56%	0	0.00%	2	1.56%	2	100.00%	0	0	0	0.00%
	HDGT	13	1.1	12	92.31%	12	100.00%	1	7.69%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
2004 Total		167	1.2	146	87.43%	132	90.41%	12	7.19%	9	75.00%	4	2.40%	1	25.00%	3	1.80%	2	66.67%	2	1	2	100.00%
2005	LDGV	21	1.2	17	80.95%	14	82.35%	4	19.05%	3	75.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	LDGT	104	1	100	96.15%	97	97.00%	2	1.92%	0	0.00%	2	1.92%	2	100.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	HDGT	15	1	14	93.33%	13	92.86%	1	6.67%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
2005 Total		140	1.1	131	93.57%	124	94.66%	7	5.00%	3	42.86%	2	1.43%	2	100.00%	0	0.00%	0	0.00%	0	0	0	0.00%
2006	LDGV	18	1.5	11	61.11%	8	72.73%	3	16.67%	1	33.33%	3	16.67%	2	66.67%	1	5.56%	0	0.00%	0	0	0	0.00%
	LDGT	62	1	60	96.77%	59	98.33%	1	1.61%	0	0.00%	1	1.61%	1	100.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	HDGT	15	1.1	14	93.33%	12	85.71%	1	6.67%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
2006 Total		95	1.1	85	89.47%	79	92.94%	5	5.26%	2	40.00%	4	4.21%	3	75.00%	1	1.05%	0	0.00%	0	0	0	0.00%
2007	LDGV	8	1.3	6	75.00%	4	66.67%	2	25.00%	2	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	LDGT	61	1.1	56	91.80%	53	94.64%	3	4.92%	2	66.67%	1	1.64%	0	0.00%	1	1.64%	1	100.00%	0	0	0	0.00%
	HDGT	8	1	8	100.00%	8	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
2007 Total		77	1.1	70	90.91%	65	92.86%	5	6.49%	4	80.00%	1	1.30%	0	0.00%	1	1.30%	1	100.00%	0	0	0	0.00%
2008	LDGV	12	1	12	100.00%	11	91.67%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	LDGT	27	1.2	25	92.59%	24	96.00%	1	3.70%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	4	1	100.00%
	HDGT	2	1	2	100.00%	2	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%

Vehicle			Avg Retest #	Retest #1				Retest #2				Retest #3				Retest #4				Retest >= #5			
Year	Type	Total		Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt %	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%
2008 Total		41	1.1	39	95.12%	37	94.87%	1	2.44%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	2	1	100.00%
2009	LDGV	3	1	3	100.00%	3	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	LDGT	27	1.1	25	92.59%	23	92.00%	2	7.41%	2	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	HDGT	2	1	2	100.00%	2	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
2009 Total		32	1.1	30	93.75%	28	93.33%	2	6.25%	2	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
2010	LDGV	4	1	4	100.00%	3	75.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	LDGT	8	1.1	7	87.50%	6	85.71%	1	12.50%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	HDGT	2	2	1	50.00%	0	0.00%	1	50.00%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
2010 Total		14	1.2	12	85.71%	9	75.00%	2	14.29%	2	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
2011	LDGV	0	0	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	LDGT	4	1	4	100.00%	4	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	HDGT	1	1	1	100.00%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
2011 Total		5	1	5	100.00%	5	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
2012	LDGV	0	0	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	LDGT	0	0	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
2012 Total		0	0	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
2013	LDGV	0	0	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
	LDGT	0	0	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
2013 Total		0	0	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0	0	0.00%
Grand Total		9,217	1.4	6377	69.19%	4572	71.70%	1580	17.14%	884	55.95%	635	6.89%	308	48.50%	278	3.02%	118	42.45%	347	4	110	31.70%

Idle Retest Frequency Report (V1.01)

Vehicle		Avg Retest #	Retest #1				Retest #2				Retest #3				Retest #4				Retest >= #5			
Type	Total		Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt %	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%
LDGV	2,043	1.4	1368	66.96%	916	66.96%	379	18.55%	203	53.56%	154	7.54%	70	45.45%	67	3.28%	28	41.79%	75	4	24	32.00%
LDGT	3,228	1.3	2428	75.22%	1898	78.17%	454	14.06%	278	61.23%	164	5.08%	87	53.05%	68	2.11%	25	36.76%	114	4	29	25.44%
HDGT	3,946	1.5	2581	65.41%	1758	68.11%	747	18.93%	403	53.95%	317	8.03%	151	47.63%	143	3.62%	65	45.45%	158	4	57	36.08%
Grand Total	9,217	1.4	6377	69.19%	4572	71.70%	1580	17.14%	884	55.95%	635	6.89%	308	48.50%	278	3.02%	118	42.45%	347	4	110	31.70%

Appendix R

I/M Eligible Vehicle Report

Evaluated Vehicles

Colorado

I/M Eligible Vehicle Report, Evaluated Vehicles

Monday, 10-March-2014

Report Start: **Jan, 2013** Report Period: **Year**

County: **All Counties**

Model Year	Veh. Type	Emis. Due Veh.	Meet Time and Location Criteria					Total	Percent	CO	HC	NOX	Accel	Emis. Due Veh. Evaluated	
			No			Yes									
			0 Hits	1 Hit	2+ Hits	1 Hit	2+ Hits								
1982															
P	34	34	0	18	1	0	15	Clean:	1	6.67%	0.1800	66.0500	575.0000	3.70	
			0.00%	52.94%	2.94%	0.00%	44.12%	Not Clean:	14	93.33%	1.6068	406.2357	1,193.2536	0.73	44.12%
T	61	61	0	30	2	0	29	Clean:	1	3.45%	0.0550	97.6500	288.1000	0.85	
			0.00%	49.18%	3.28%	0.00%	47.54%	Not Clean:	28	96.55%	2.2280	423.5714	1,762.8643	0.79	47.54%
U	745	745	744	0	0	0	1	Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	
			99.87%	0.00%	0.00%	0.00%	0.13%	Not Clean:	1	100.00%	0.3050	274.4000	2,437.8999	1.75	0.13%
Total For 1982		840	744	48	3	0	45	Clean:	2	4.44%	0.1175	81.8500	431.5500	2.27	
								Not Clean:	43	95.56%	1.9810	414.4581	1,593.1081	0.79	5.36%
1983															
P	89	89	0	44	1	0	44	Clean:	4	9.09%	0.1250	43.2625	594.6875	0.89	
			0.00%	49.44%	1.12%	0.00%	49.44%	Not Clean:	40	90.91%	1.6341	240.2637	1,127.3962	1.09	49.44%
T	95	95	0	47	2	0	46	Clean:	1	2.17%	0.0250	0.0000	14.6500	-0.35	
			0.00%	49.47%	2.11%	0.00%	48.42%	Not Clean:	45	97.83%	2.4563	352.5567	1,122.5111	0.75	48.42%
U	1,518	1,518	1,514	3	0	0	1	Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	
			99.74%	0.20%	0.00%	0.00%	0.07%	Not Clean:	1	100.00%	4.3700	2,044.8000	734.4500	-1.00	0.07%
Total For 1983		1,702	1,514	94	3	0	91	Clean:	5	5.49%	0.1050	34.6100	478.6800	0.64	
								Not Clean:	86	94.51%	2.0962	320.0046	1,120.2709	0.89	5.35%
1984															
P	119	119	0	66	1	2	50	Clean:	10	19.23%	0.1055	34.7800	405.2350	0.75	
			0.00%	55.46%	0.84%	1.68%	42.02%	Not Clean:	42	80.77%	1.5201	215.8202	1,216.0857	0.66	43.70%
T	155	155	0	94	1	0	60	Clean:	1	1.67%	0.2300	67.8000	322.0500	0.20	
			0.00%	60.65%	0.65%	0.00%	38.71%	Not Clean:	59	98.33%	2.7884	421.1559	1,310.5559	0.82	38.71%
U	1,454	1,454	1,448	4	0	0	2	Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	
			99.59%	0.28%	0.00%	0.00%	0.14%	Not Clean:	2	100.00%	0.3025	184.6000	1,338.5500	0.50	0.14%
Total For 1984		1,728	1,448	164	2	2	112	Clean:	11	9.65%	0.1168	37.7818	397.6727	0.70	
								Not Clean:	103	90.35%	2.2230	332.8335	1,272.5777	0.75	6.60%

Model Year	Veh. Type	Emis. Due Veh.	Meet Time and Location Criteria					Total	Percent	CO	HC	NOX	Accel	Emis. Due Veh. Evaluated	
			No			Yes									
			0 Hits	1 Hit	2+ Hits	1 Hit	2+ Hits								
1985															
P	236	0	131	2	3	100	Clean:	21	20.39%	0.0867	38.7762	346.1786	0.37		
			0.00%	55.51%	0.85%	1.27%	42.37%	Not Clean:	82	79.61%	1.3768	244.6207	1,391.7024	1.02	43.64%
T	248	0	151	3	0	94	Clean:	5	5.32%	0.0890	55.3400	475.7400	0.40		
			0.00%	60.89%	1.21%	0.00%	37.90%	Not Clean:	89	94.68%	1.9406	315.5792	1,448.7899	0.69	37.90%
U	2,661	2,654	5	0	0	2	Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00		
			99.74%	0.19%	0.00%	0.00%	0.08%	Not Clean:	2	100.00%	3.1150	284.5250	360.3500	-0.30	0.08%
Total For 1985	3,145	2,654	287	5	3	196	Clean:	26	13.07%	0.0871	41.9615	371.0942	0.38		
			84.39%	9.13%	0.16%	0.10%	6.23%	Not Clean:	173	86.93%	1.6870	281.5867	1,409.1480	0.83	6.33%
1986															
P	287	0	127	1	6	153	Clean:	35	22.01%	0.1086	30.7871	275.2743	0.72		
			0.00%	44.25%	0.35%	2.09%	53.31%	Not Clean:	124	77.99%	0.9343	229.1367	1,411.8307	1.02	55.40%
T	293	0	152	3	0	138	Clean:	5	3.62%	0.1450	38.7000	370.8300	0.29		
			0.00%	51.88%	1.02%	0.00%	47.10%	Not Clean:	133	96.38%	1.5495	218.6714	1,376.8917	0.59	47.10%
U	2,174	2,170	4	0	0	0	Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00		
			99.82%	0.18%	0.00%	0.00%	0.00%	Not Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	0.00%
Total For 1986	2,754	2,170	283	4	6	291	Clean:	40	13.47%	0.1131	31.7762	287.2187	0.67		
			78.79%	10.28%	0.15%	0.22%	10.57%	Not Clean:	257	86.53%	1.2527	223.7208	1,393.7494	0.80	10.78%
1987															
P	433	0	226	2	1	204	Clean:	47	22.93%	0.1331	36.2691	377.2521	0.84		
			0.00%	52.19%	0.46%	0.23%	47.11%	Not Clean:	158	77.07%	0.9618	229.8358	1,220.6127	1.16	47.34%
T	404	0	205	3	2	194	Clean:	24	12.24%	0.1615	57.3938	381.0979	0.48		
			0.00%	50.74%	0.74%	0.50%	48.02%	Not Clean:	172	87.76%	1.3296	478.3834	1,472.2328	0.88	48.51%
U	3,810	3,806	4	0	0	0	Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00		
			99.90%	0.10%	0.00%	0.00%	0.00%	Not Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	0.00%
Total For 1987	4,647	3,806	435	5	3	398	Clean:	71	17.71%	0.1427	43.4099	378.5521	0.72		
			81.90%	9.36%	0.11%	0.06%	8.56%	Not Clean:	330	82.29%	1.1535	359.3818	1,351.7601	1.01	8.63%
1988															
P	466	0	234	1	3	228	Clean:	47	20.35%	0.1167	34.2628	315.1234	0.44		
			0.00%	50.21%	0.21%	0.64%	48.93%	Not Clean:	184	79.65%	1.1208	303.7736	1,222.1864	0.68	49.57%
T	448	0	232	2	0	214	Clean:	33	15.42%	0.1788	43.0561	401.4439	0.32		
			0.00%	51.79%	0.45%	0.00%	47.77%	Not Clean:	181	84.58%	1.1067	265.1298	1,382.1884	0.86	47.77%
U	3,062	3,061	1	0	0	0	Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00		
			99.97%	0.03%	0.00%	0.00%	0.00%	Not Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	0.00%
Total For 1988	3,976	3,061	467	3	3	442	Clean:	80	17.98%	0.1423	37.8900	350.7306	0.39		
			76.99%	11.75%	0.08%	0.08%	11.12%	Not Clean:	365	82.02%	1.1138	284.6105	1,301.5299	0.76	11.19%

Model Year	Veh. Type	Emis. Due Veh.	Meet Time and Location Criteria					Total	Percent	CO	HC	NOX	Accel	Emis. Due Veh. Evaluated
			No			Yes								
			0 Hits	1 Hit	2+ Hits	1 Hit	2+ Hits							
1989														
P	883	0	439	5	12	427	Clean:	125	28.47%	0.1019	31.6932	286.4084	0.64	
		0.00%	49.72%	0.57%	1.36%	48.36%	Not Clean:	314	71.53%	1.1951	186.8865	1,182.7113	0.92	49.72%
T	798	0	412	8	0	378	Clean:	56	14.81%	0.1412	44.5143	368.4071	0.75	
		0.00%	51.63%	1.00%	0.00%	47.37%	Not Clean:	322	85.19%	1.1428	309.0332	1,301.0037	0.75	47.37%
U	6,193	6,188	4	0	0	1	Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	
		99.92%	0.06%	0.00%	0.00%	0.02%	Not Clean:	1	100.00%	0.4550	566.1000	1,676.4500	0.40	0.02%
Total For 1989	7,874	6,188	855	13	12	806	Clean:	181	22.13%	0.1141	35.6599	311.7782	0.68	
							Not Clean:	637	77.87%	1.1675	249.2263	1,243.2826	0.83	10.39%
1990														
P	1,101	0	500	3	13	585	Clean:	164	27.42%	0.1051	28.2527	337.5540	0.71	
		0.00%	45.41%	0.27%	1.18%	53.13%	Not Clean:	434	72.58%	0.9130	177.9007	1,285.5828	0.91	54.31%
T	670	0	358	4	3	305	Clean:	47	15.26%	0.1334	39.9234	347.2628	0.61	
		0.00%	53.43%	0.60%	0.45%	45.52%	Not Clean:	261	84.74%	0.9566	194.0013	1,308.0730	0.76	45.97%
U	4,804	4,802	1	0	0	1	Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	
		99.96%	0.02%	0.00%	0.00%	0.02%	Not Clean:	1	100.00%	0.1800	91.0000	694.6000	1.20	0.02%
Total For 1990	6,575	4,802	859	7	16	891	Clean:	211	23.26%	0.1114	30.8524	339.7166	0.68	
							Not Clean:	696	76.74%	0.9283	183.8136	1,293.1675	0.86	13.79%
1991														
P	1,775	0	850	0	21	904	Clean:	273	29.51%	0.1249	28.8315	325.6974	0.63	
		0.00%	47.89%	0.00%	1.18%	50.93%	Not Clean:	652	70.49%	0.9887	195.4757	1,170.3671	0.90	52.11%
T	1,260	0	610	12	7	631	Clean:	155	24.29%	0.1317	38.7877	321.5926	0.68	
		0.00%	48.41%	0.95%	0.56%	50.08%	Not Clean:	483	75.71%	1.0711	180.1317	1,178.7336	0.87	50.63%
U	9,106	9,102	4	0	0	0	Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	
		99.96%	0.04%	0.00%	0.00%	0.00%	Not Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	0.00%
Total For 1991	12,141	9,102	1,464	12	28	1,535	Clean:	428	27.38%	0.1274	32.4371	324.2109	0.65	
							Not Clean:	1,135	72.62%	1.0238	188.9460	1,173.9275	0.89	12.87%
1992														
P	1,708	0	789	4	5	910	Clean:	294	32.13%	0.1295	31.5770	342.1024	0.62	
		0.00%	46.19%	0.23%	0.29%	53.28%	Not Clean:	621	67.87%	0.8343	156.4810	1,150.3293	0.83	53.57%
T	1,209	0	549	12	2	646	Clean:	117	18.06%	0.1238	35.4423	321.0769	0.41	
		0.00%	45.41%	0.99%	0.17%	53.43%	Not Clean:	531	81.94%	0.9122	173.9321	1,281.3978	0.88	53.60%
U	6,785	6,785	0	0	0	0	Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	
		100.00%	0.00%	0.00%	0.00%	0.00%	Not Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	0.00%
Total For 1992	9,702	6,785	1,338	16	7	1,556	Clean:	411	26.30%	0.1279	32.6774	336.1170	0.56	
							Not Clean:	1,152	73.70%	0.8702	164.5249	1,210.7437	0.85	16.11%

Model Year	Veh. Type	Emis. Due Veh.	Meet Time and Location Criteria					Total	Percent	CO	HC	NOX	Accel	Emis. Due Veh. Evaluated	
			No			Yes									
			0 Hits	1 Hit	2+ Hits	1 Hit	2+ Hits								
1993															
P	2,732	2,732	0	1277	8	21	1,426	Clean:	488	33.72%	0.1169	29.3178	329.9546	0.70	
			0.00%	46.74%	0.29%	0.77%	52.20%	Not Clean:	959	66.28%	0.8484	155.4723	1,189.5519	0.96	52.96%
T	2,347	2,347	0	1157	23	2	1,165	Clean:	251	21.51%	0.1332	37.2173	375.7827	0.66	
			0.00%	49.30%	0.98%	0.09%	49.64%	Not Clean:	916	78.49%	0.7955	175.8832	1,286.5445	0.86	49.72%
U	12,591	12,586	12,586	4	0	0	1	Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	
			99.96%	0.03%	0.00%	0.00%	0.01%	Not Clean:	1	100.00%	0.1350	159.9500	699.9000	0.00	0.01%
Total For 1993		17,670	12,586	2,438	31	23	2,592	Clean:	739	28.26%	0.1225	32.0009	345.5200	0.69	
								Not Clean:	1,876	71.74%	0.8222	165.4408	1,236.6498	0.91	14.80%
1994															
P	2,783	2,783	0	1199	8	81	1,495	Clean:	659	41.81%	0.1134	27.4097	265.5913	0.57	
			0.00%	43.08%	0.29%	2.91%	53.72%	Not Clean:	917	58.19%	0.7706	151.6240	1,028.2228	0.91	56.63%
T	2,787	2,787	0	1293	31	1	1,462	Clean:	353	24.13%	0.1175	38.7615	383.3463	0.60	
			0.00%	46.39%	1.11%	0.04%	52.46%	Not Clean:	1,110	75.87%	0.7021	148.1754	1,221.8026	0.80	52.49%
U	12,086	12,075	12,075	7	0	0	4	Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	
			99.91%	0.06%	0.00%	0.00%	0.03%	Not Clean:	4	100.00%	1.5887	563.9125	653.9375	0.79	0.03%
Total For 1994		17,656	12,075	2,499	39	82	2,961	Clean:	1,012	33.26%	0.1148	31.3694	306.6659	0.58	
								Not Clean:	2,031	66.74%	0.7348	150.5512	1,133.2826	0.85	17.23%
1995															
P	4,747	4,747	0	2151	17	97	2,482	Clean:	1,231	47.73%	0.1063	25.8700	254.3751	0.76	
			0.00%	45.31%	0.36%	2.04%	52.29%	Not Clean:	1,348	52.27%	0.7186	153.1133	937.4093	0.99	54.33%
T	4,552	4,552	0	1954	35	88	2,475	Clean:	723	28.21%	0.1059	28.5748	318.6497	0.59	
			0.00%	42.93%	0.77%	1.93%	54.37%	Not Clean:	1,840	71.79%	0.7462	156.0660	1,197.8273	0.86	56.30%
U	19,317	19,312	19,312	2	0	0	3	Clean:	1	33.33%	0.2800	21.4000	568.7500	0.25	
			99.97%	0.01%	0.00%	0.00%	0.02%	Not Clean:	2	66.67%	2.6925	141.9500	711.3000	0.55	0.02%
Total For 1995		28,616	19,312	4,107	52	185	4,960	Clean:	1,955	38.00%	0.1062	26.8680	278.3060	0.70	
								Not Clean:	3,190	62.00%	0.7357	154.8094	1,087.4773	0.92	17.98%
1996															
P	4,248	4,248	0	1718	12	145	2,373	Clean:	1,459	57.94%	0.0978	23.7505	234.1983	0.71	
			0.00%	40.44%	0.28%	3.41%	55.86%	Not Clean:	1,059	42.06%	0.6608	140.5520	873.2596	0.94	59.27%
T	4,024	4,024	0	1646	25	47	2,306	Clean:	1,066	45.30%	0.1100	26.4879	288.8978	0.61	
			0.00%	40.90%	0.62%	1.17%	57.31%	Not Clean:	1,287	54.70%	0.5620	109.9906	1,070.7912	0.85	58.47%
U	14,230	14,222	14,222	3	0	0	5	Clean:	4	80.00%	0.1725	23.8625	461.1375	0.84	
			99.94%	0.02%	0.00%	0.00%	0.04%	Not Clean:	1	20.00%	0.7050	55.3000	2,064.7000	1.05	0.04%
Total For 1996		22,502	14,222	3,367	37	192	4,684	Clean:	2,529	51.87%	0.1031	24.9045	257.6137	0.66	
								Not Clean:	2,347	48.13%	0.6066	123.7570	982.0856	0.89	21.67%

Model Year	Veh. Type	Emis. Due Veh.	Meet Time and Location Criteria					Total	Percent	CO	HC	NOX	Accel	Emis. Due Veh. Evaluated	
			No			Yes									
			0 Hits	1 Hit	2+ Hits	1 Hit	2+ Hits								
1997															
P	7,116	7,116	0	2729	20	415	3,952	Clean:	2,765	63.32%	0.0932	21.5350	193.6353	0.75	
			0.00%	38.35%	0.28%	5.83%	55.54%	Not Clean:	1,602	36.68%	0.8566	129.7194	754.0341	1.03	61.37%
T	7,761	7,761	0	3042	61	369	4,289	Clean:	2,542	54.57%	0.0953	21.1641	238.8980	0.66	
			0.00%	39.20%	0.79%	4.75%	55.26%	Not Clean:	2,116	45.43%	0.5118	108.0319	1,041.0421	0.91	60.02%
U	26,260	26,260	26,244	6	1	0	9	Clean:	8	88.89%	0.0837	35.4375	320.1750	0.85	
			99.94%	0.02%	0.00%	0.00%	0.03%	Not Clean:	1	11.11%	1.1900	17.3500	43.0000	-0.35	0.03%
Total For 1997		41,137	26,244	5,777	82	784	8,250	Clean:	5,315	58.83%	0.0942	21.3785	215.4735	0.71	
			63.80%	14.04%	0.20%	1.91%	20.05%	Not Clean:	3,719	41.17%	0.6605	117.3497	917.1419	0.96	21.96%
1998															
P	6,582	6,582	0	2460	20	377	3,725	Clean:	2,656	64.75%	0.0906	19.6002	173.5155	0.67	
			0.00%	37.37%	0.30%	5.73%	56.59%	Not Clean:	1,446	35.25%	0.8464	114.4068	695.8548	0.92	62.32%
T	7,308	7,308	0	2573	44	423	4,268	Clean:	2,869	61.16%	0.0848	19.6791	219.2020	0.60	
			0.00%	35.21%	0.60%	5.79%	58.40%	Not Clean:	1,822	38.84%	0.5182	84.8218	963.6296	0.88	64.19%
U	20,180	20,180	20,171	5	0	0	4	Clean:	1	25.00%	0.1100	11.3000	109.8000	-0.55	
			99.96%	0.02%	0.00%	0.00%	0.02%	Not Clean:	3	75.00%	0.5033	65.8667	792.8333	1.12	0.02%
Total For 1998		34,070	20,171	5,038	64	800	7,997	Clean:	5,526	62.82%	0.0876	19.6397	197.2236	0.64	
			59.20%	14.79%	0.19%	2.35%	23.47%	Not Clean:	3,271	37.18%	0.6632	97.8830	845.0986	0.90	25.82%
1999															
P	9,894	9,894	0	3292	39	1,086	5,477	Clean:	4,740	72.22%	0.0697	16.1469	144.7007	0.68	
			0.00%	33.27%	0.39%	10.98%	55.36%	Not Clean:	1,823	27.78%	0.7492	94.2583	705.8086	1.01	66.33%
T	13,485	13,485	0	4769	115	866	7,735	Clean:	6,214	72.25%	0.0724	17.3536	172.0846	0.68	
			0.00%	35.37%	0.85%	6.42%	57.36%	Not Clean:	2,387	27.75%	0.5193	83.0066	901.8707	0.95	63.78%
U	35,685	35,685	35,666	5	0	0	14	Clean:	8	57.14%	0.0850	11.6812	225.6562	0.72	
			99.95%	0.01%	0.00%	0.00%	0.04%	Not Clean:	6	42.86%	1.2658	715.3667	1,637.1500	1.16	0.04%
Total For 1999		59,064	35,666	8,066	154	1,952	13,226	Clean:	10,962	72.22%	0.0712	16.8277	160.2828	0.68	
			60.39%	13.66%	0.26%	3.30%	22.39%	Not Clean:	4,216	27.78%	0.6197	88.7718	818.1398	0.98	25.70%
2000															
P	9,447	9,447	0	2812	29	1,136	5,470	Clean:	4,986	75.48%	0.0624	15.3026	115.6233	0.66	
			0.00%	29.77%	0.31%	12.02%	57.90%	Not Clean:	1,620	24.52%	0.6940	106.5226	701.8520	0.99	69.93%
T	11,393	11,393	0	3269	82	1,163	6,879	Clean:	6,212	77.24%	0.0624	15.8601	144.2454	0.62	
			0.00%	28.69%	0.72%	10.21%	60.38%	Not Clean:	1,830	22.76%	0.5562	82.3627	812.3851	0.89	70.59%
U	25,803	25,803	25,783	10	0	0	10	Clean:	4	40.00%	0.0813	23.4625	260.6625	0.81	
			99.92%	0.04%	0.00%	0.00%	0.04%	Not Clean:	6	60.00%	0.2375	58.6333	628.7166	0.72	0.04%
Total For 2000		46,643	25,783	6,091	111	2,299	12,359	Clean:	11,202	76.42%	0.0624	15.6147	131.5473	0.64	
			55.28%	13.06%	0.24%	4.93%	26.50%	Not Clean:	3,456	23.58%	0.6203	93.6464	760.2538	0.93	31.43%

Model Year	Veh. Type	Emis. Due Veh.	Meet Time and Location Criteria					Total	Percent	CO	HC	NOX	Accel	Emis. Due Veh. Evaluated	
			No			Yes									
			0 Hits	1 Hit	2+ Hits	1 Hit	2+ Hits								
2001															
P	13,762	0	1950	47	3,657	8,108	Clean:	9,923	84.34%	0.0440	10.7504	64.6876	0.60		
			0.00%	14.17%	0.34%	26.57%	58.92%	Not Clean:	1,842	15.66%	0.7285	96.5297	619.9703	1.10	85.49%
T	18,261	0	2960	152	4,213	10,936	Clean:	13,121	86.61%	0.0481	12.3109	84.5267	0.58		
			0.00%	16.21%	0.83%	23.07%	59.89%	Not Clean:	2,028	13.39%	0.6117	98.1615	648.1468	0.98	82.96%
U	42,012	41,985	7	0	0	20	Clean:	11	55.00%	0.0805	26.0500	172.7136	1.13		
			99.94%	0.02%	0.00%	0.00%	0.05%	Not Clean:	9	45.00%	0.5139	383.2444	1,306.3555	1.04	0.05%
Total For 2001	74,035	41,985	4,917	199	7,870	19,064	Clean:	23,055	85.60%	0.0464	11.6458	76.0299	0.59		
			56.71%	6.64%	0.27%	10.63%	25.75%	Not Clean:	3,879	14.40%	0.6670	98.0481	636.2940	1.04	36.38%
2002															
P	10,224	0	1266	31	2,758	6,169	Clean:	7,636	85.54%	0.0418	10.9283	60.6806	0.54		
			0.00%	12.38%	0.30%	26.98%	60.34%	Not Clean:	1,291	14.46%	0.6764	100.3532	566.0787	1.02	87.31%
T	12,886	0	1495	82	3,196	8,113	Clean:	9,936	87.86%	0.0435	11.2720	80.8445	0.56		
			0.00%	11.60%	0.64%	24.80%	62.96%	Not Clean:	1,373	12.14%	0.6091	79.2303	621.1841	0.86	87.76%
U	25,711	25,694	7	0	0	10	Clean:	6	60.00%	0.0683	12.6417	120.5583	1.10		
			99.93%	0.03%	0.00%	0.00%	0.04%	Not Clean:	4	40.00%	0.8488	67.8375	767.7125	0.74	0.04%
Total For 2002	48,821	25,694	2,768	113	5,954	14,292	Clean:	17,578	86.82%	0.0427	11.1232	72.0987	0.55		
			52.63%	5.67%	0.23%	12.20%	29.27%	Not Clean:	2,668	13.18%	0.6420	89.4343	594.7392	0.94	41.47%
2003															
P	15,762	0	1413	42	4,911	9,396	Clean:	12,743	89.07%	0.0366	9.7478	49.2474	0.59		
			0.00%	8.96%	0.27%	31.16%	59.61%	Not Clean:	1,564	10.93%	0.6709	96.9487	518.5527	1.14	90.77%
T	22,791	0	1650	151	6,979	14,011	Clean:	19,235	91.64%	0.0378	9.7767	52.2104	0.58		
			0.00%	7.24%	0.66%	30.62%	61.48%	Not Clean:	1,755	8.36%	0.6309	81.8423	542.4745	0.99	92.10%
U	44,654	44,627	13	0	0	14	Clean:	13	92.86%	0.0662	23.7577	193.7462	0.91		
			99.94%	0.03%	0.00%	0.00%	0.03%	Not Clean:	1	7.14%	0.0900	76.5000	697.9500	-0.25	0.03%
Total For 2003	83,207	44,627	3,076	193	11,890	23,421	Clean:	31,991	90.60%	0.0373	9.7709	51.0876	0.59		
			53.63%	3.70%	0.23%	14.29%	28.15%	Not Clean:	3,320	9.40%	0.6496	88.9571	531.2522	1.06	42.44%
2004															
P	8,941	0	563	28	2,814	5,536	Clean:	7,528	90.16%	0.0387	10.0901	44.7236	0.56		
			0.00%	6.30%	0.31%	31.47%	61.92%	Not Clean:	822	9.84%	0.7062	93.6341	548.3345	1.14	93.39%
T	13,660	0	967	94	3,872	8,727	Clean:	11,738	93.17%	0.0329	9.6560	40.6073	0.58		
			0.00%	7.08%	0.69%	28.35%	63.89%	Not Clean:	861	6.83%	0.7077	82.4340	478.6685	0.84	92.23%
U	21,416	21,400	4	0	0	12	Clean:	11	91.67%	0.0636	27.5045	47.8636	0.78		
			99.93%	0.02%	0.00%	0.00%	0.06%	Not Clean:	1	8.33%	0.6800	18.3500	205.8000	3.50	0.06%
Total For 2004	44,017	21,400	1,534	122	6,686	14,275	Clean:	19,277	91.97%	0.0352	9.8357	42.2189	0.57		
			48.62%	3.49%	0.28%	15.19%	32.43%	Not Clean:	1,684	8.03%	0.7070	87.8630	512.5121	0.98	47.62%

Model Year	Veh. Type	Emis. Due Veh.	Meet Time and Location Criteria					Total	Percent	CO	HC	NOX	Accel	Emis. Due Veh. Evaluated
			No			Yes								
			0 Hits	1 Hit	2+ Hits	1 Hit	2+ Hits							
2005														
P	17,820	0	1430	52	5,426	10,912	Clean:	15,087	92.34%	0.0339	9.6918	34.0737	0.64	
			0.00%	8.02%	0.29%	30.45%	61.23%	Not Clean:	1,251	7.66%	0.6839	95.6489	401.5733	1.18
T	28,610	0	1544	209	8,864	17,993	Clean:	25,466	94.82%	0.0288	9.0304	33.2277	0.61	
			0.00%	5.40%	0.73%	30.98%	62.89%	Not Clean:	1,391	5.18%	0.5964	89.5174	428.4405	1.00
U	46,250	46,215	14	0	0	21	Clean:	15	71.43%	0.0390	10.7100	87.9900	1.29	
			99.92%	0.03%	0.00%	0.00%	0.05%	Not Clean:	6	28.57%	0.5650	61.7250	633.9167	1.05
Total For 2005	92,680	46,215	2,988	261	14,290	28,926	Clean:	40,568	93.87%	0.0307	9.2770	33.5626	0.62	
							Not Clean:	2,648	6.13%	0.6376	92.3511	416.2131	1.09	46.63%
2006														
P	10,000	0	999	19	2,840	6,142	Clean:	8,368	93.16%	0.0364	9.6202	33.7527	0.67	
			0.00%	9.99%	0.19%	28.40%	61.42%	Not Clean:	614	6.84%	0.6460	86.1726	418.4550	1.14
T	13,941	0	718	99	4,194	8,930	Clean:	12,482	95.11%	0.0297	8.8065	31.8810	0.64	
			0.00%	5.15%	0.71%	30.08%	64.06%	Not Clean:	642	4.89%	0.5881	98.6291	441.0605	0.96
U	21,659	21,642	7	0	0	10	Clean:	9	90.00%	0.0650	17.4556	108.0667	1.10	
			99.92%	0.03%	0.00%	0.00%	0.05%	Not Clean:	1	10.00%	0.6700	96.2000	3,454.2002	0.45
Total For 2006	45,600	21,642	1,724	118	7,034	15,082	Clean:	20,859	94.32%	0.0324	9.1367	32.6648	0.65	
							Not Clean:	1,257	5.68%	0.6164	92.5426	432.4156	1.05	48.50%
2007														
P	18,887	0	2145	48	5,272	11,422	Clean:	15,734	94.25%	0.0324	9.9907	28.1815	0.67	
			0.00%	11.36%	0.25%	27.91%	60.48%	Not Clean:	960	5.75%	0.6310	102.4058	309.7073	1.16
T	31,203	0	1752	222	9,141	20,088	Clean:	28,028	95.89%	0.0288	8.9457	27.4327	0.66	
			0.00%	5.61%	0.71%	29.30%	64.38%	Not Clean:	1,201	4.11%	0.6438	76.2199	246.7200	1.06
U	46,010	45,985	9	0	0	16	Clean:	14	87.50%	0.0389	21.7357	62.4321	0.86	
			99.95%	0.02%	0.00%	0.00%	0.03%	Not Clean:	2	12.50%	1.2000	4.5750	58.6500	0.65
Total For 2007	96,100	45,985	3,906	270	14,413	31,526	Clean:	43,776	95.29%	0.0301	9.3254	27.7130	0.67	
							Not Clean:	2,163	4.71%	0.6386	87.7757	274.5016	1.11	47.80%
2008														
P	4,591	0	907	21	751	2,912	Clean:	3,444	94.02%	0.0390	11.1961	30.6346	0.70	
			0.00%	19.76%	0.46%	16.36%	63.43%	Not Clean:	219	5.98%	0.6236	75.5030	398.0055	1.12
T	6,938	0	836	173	1,386	4,543	Clean:	5,612	94.65%	0.0390	9.9795	30.8813	0.64	
			0.00%	12.05%	2.49%	19.98%	65.48%	Not Clean:	317	5.35%	0.7015	72.7022	213.4382	1.03
U	8,766	8,759	5	0	0	2	Clean:	2	100.00%	0.1850	1.2750	25.4000	2.42	
			99.92%	0.06%	0.00%	0.00%	0.02%	Not Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00
Total For 2008	20,295	8,759	1,748	194	2,137	7,457	Clean:	9,058	94.41%	0.0390	10.4402	30.7863	0.66	
							Not Clean:	536	5.59%	0.6697	73.8465	288.8491	1.07	47.27%

Model Year	Veh. Type	Emis. Due Veh.	Meet Time and Location Criteria					Total	Percent	CO	HC	NOX	Accel	Emis. Due Veh. Evaluated	
			No			Yes									
			0 Hits	1 Hit	2+ Hits	1 Hit	2+ Hits								
2009															
P	4,504	0	1014	15	713	2,762	Clean:	3,291	94.71%	0.0379	10.8059	30.3507	0.83		
			0.00%	22.51%	0.33%	15.83%	61.32%	Not Clean:	184	5.29%	0.7032	77.0921	164.4152	1.18	77.15%
T	3,881	0	1050	28	398	2,405	Clean:	2,676	95.47%	0.0374	9.5969	28.0557	0.84		
			0.00%	27.05%	0.72%	10.26%	61.97%	Not Clean:	127	4.53%	0.7123	89.6004	205.9457	1.41	72.22%
U	58,120	31,273	9891	52	0	16,904	Clean:	16,027	94.81%	0.0433	13.5737	36.7476	1.01		
			53.81%	17.02%	0.09%	0.00%	29.08%	Not Clean:	877	5.19%	0.6140	77.2487	192.8173	1.23	29.08%
Total For 2009	66,505	31,273	11,955	95	1,111	22,071	Clean:	21,994	94.88%	0.0418	12.6757	34.7329	0.96		
			47.02%	17.98%	0.14%	1.67%	33.19%	Not Clean:	1,188	5.12%	0.6383	78.5449	189.8218	1.24	34.86%
Overall Total	893,702	495,913	78,293	2,208	77,782	239,506	Clean:	268,862	84.74%	0.0429	11.5921	65.0259	0.65		
			55.49%	8.76%	0.25%	8.70%	26.80%	Not Clean:	48,426	15.26%	0.7072	117.7011	788.5705	0.97	35.50%