



Air Resources Board



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Secretary for
Environmental Protection

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Edmund G. Brown Jr.
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July 29, 2014

Mr. Jeffrey Buss
Environmental Protection Specialist, Air Division
Environmental Protection Agency
75 Hawthorne Street (AIR-2)
San Francisco, California 94105

Dear Mr. Buss:

Enclosed is a compilation of data for 2013 prepared by the Bureau of Automotive Repair (BAR) to meet the requirements of CFR section 51.366 (a-d). This section requires BAR to annually submit summary statistics of the enforcement mechanism, the quality assurance system, the quality control program, and the testing elements of the State's Smog Check Program.

Health and Safety Code (HSC) section 44024.5, as amended by AB 2289, requires the Bureau of Automotive Repair (BAR), in cooperation with the Air Resources Board (ARB), to perform an analysis of California's Smog Check Program. The law requires the results to be reported annually. For more information on the status of California's Smog Check Program improvements, a copy of this year's 2014 Smog Check Performance Report is included with this submission.

Please feel free to contact me should you have questions or comments regarding this submittal. You can reach me at (916) 322-6034, or by e-mail at dlewis@arb.ca.gov.

Sincerely,

David S. Lewis
Air Pollution Specialist

Enclosures (2)

cc: See next page.

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website: <http://www.arb.ca.gov>.

California Environmental Protection Agency

Mr. Jeffrey Buss
July 29, 2014
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Alberto Ayala, Ph.D., M.S.E.
Deputy Executive Officer

**I/M RULE SECTION 51.366 DATA ANALYSIS AND REPORTING
CALIFORNIA BUREAU OF AUTOMOTIVE REPAIR
CALENDAR YEAR 2013**

(a)	Test data report. The program shall submit to EPA by July of each year a report providing basic statistics on the testing program for January through December of the previous year, including:	Data	Clarification
(1)	The number of vehicles tested by model year and vehicle type;	Attachment A	
(2)	By model year and vehicle type, the number and percentage of vehicles:		
i	Failing initially, per test type;	Attachment A	
ii	Failing the first retest per test type;	Attachment A	
iii	Passing the first retest per test type;	Attachment A	
iv	Initially failed vehicles passing the second or subsequent retest per test type;	Attachment A	
v	Initially failed vehicles receiving a waiver; and	Attachment A	
vi	Vehicles with no known final Outcome (regardless of reason);	Attachment A	
xi	Passing the on-board diagnostic check;	Attachment A	
xii	Failing the on-board diagnostic check;	Attachment A	
xiii	Failing the on-board diagnostic check and passing the tailpipe test (if applicable);	Attachment A	
xiv	Failing the on-board diagnostic check and failing the tailpipe test (if applicable);	Attachment A	
xv	Passing the on-board diagnostic check and failing the I/M gas cap evaporative system test (if applicable);	Attachment A	
xvi	Failing the on-board diagnostic check and passing the I/M gas cap evaporative system test (if applicable);	Attachment A	
xvii	Passing both the on-board diagnostic check and I/M gas cap evaporative system test (if applicable);	Attachment A	
xviii	Failing both the on-board diagnostic check and I/M gas cap evaporative system test (if applicable);	Attachment A	
xix	MIL is commanded on and no codes are stored;	Attachment A	
xx	MIL is not commanded on and codes are stored;	Attachment A	
xxi	MIL is commanded on and codes are stored;	Attachment A	
xxii	MIL is not commanded on and codes are not stored;	Attachment A	
xxiii	Readiness status indicates the evaluation not complete for any module supported by on-board diagnostic systems;	Attachment A	OBDI readiness monitor threshold changed from 2 to 1 for model year 2001 and newer beginning July 6, 2010.
(3)	The initial test volume by model year and test station;	Attachment A	
(4)	The initial test failure rate by model year and test station; and	Attachment A	

**I/M RULE SECTION 51.366 DATA ANALYSIS AND REPORTING
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CALENDAR YEAR 2013**

(5)	The average increase or decrease in tailpipe emission levels for HC, CO, and NOX (if applicable) after repairs by model year and vehicle type for vehicles receiving a mass emissions test.	N/A	Mass emissions testing is not performed in California's Smog Check program.
(b)	Quality assurance report. The program shall submit to EPA by July of each year a report providing basic statistics on the quality assurance program for January through December of the previous year, including:		
(1)	The number of inspection stations and lanes:		
i	Operating throughout the year; and	Attachment B	
ii	Operating for only part of the year;	N/A	
(2)	The number of inspection stations and lanes operating throughout the year:		
i	Receiving overt performance audits in the year;	Attachment B	
ii	Not receiving overt performance audits in the year;	Attachment B	
iii	Receiving covert performance audits in the year;	Attachment B	
iv	Not receiving covert performance audits in the year; and	Attachment B	
v	That have been shut down as a result of overt performance audits;	Attachment B	
(3)	The number of covert audits:		
i	Conducted with the vehicle set to fail per test type;	Attachment B	
ii	Conducted with the vehicle set to fail any combination of two or more test types;	Attachment B	
iii	Resulting in a false pass per test type;	Attachment B	
iv	Resulting in a false pass for any combination of two or more test types;	Attachment B	
(4)	The number of inspectors and stations:		
i	That were suspended, fired, or otherwise prohibited from testing as a result of covert audits;	Attachment B	
ii	That were suspended, fired, or otherwise prohibited from testing for other causes; and	Attachment B	
iii	That received fines;	Attachment B	
(5)	The number of inspectors licensed or certified to conduct testing;	Attachment B	

**I/M RULE SECTION 51.366 DATA ANALYSIS AND REPORTING
CALIFORNIA BUREAU OF AUTOMOTIVE REPAIR
CALENDAR YEAR 2013**

(6)	The number of hearings:		
i	Held to consider adverse actions against inspectors and stations; and	Attachment B	
ii	Resulting in adverse actions against inspectors and stations;	Attachment B	
(7)	The total amount collected in fines from inspectors and stations by type of violation;	Attachment B	
(8)	The total number of covert vehicles available for undercover audits over the year; and	Attachment B	
(9)	The number of covert auditors available for undercover audits.	Attachment B	
(c)	Quality control report. The program shall submit to EPA by July of each year a report providing basic statistics on the quality control program for January through December of the previous year, including:		
(1)	The number of emission testing sites and lanes in use in the program;	Attachment B	
(2)	The number of equipment audits by station and lane;	Attachment B	
(3)	The number and percentage of stations that have failed equipment audits; and	Attachment B	
(4)	Number and percentage of stations and lanes shut down as a result of equipment audits.	Attachment B	
(d)	Enforcement report.		
(1)	All varieties of enforcement programs shall, at a minimum, submit to EPA by July of each year a report providing basic statistics on the enforcement program for January through December of the previous year, including:		
i	An estimate of the number of vehicles subject to the inspection program, including the results of an analysis of the registration data base;	24,726,872	This is ARB's estimate of the number of vehicles subject to the Smog Check program. The estimate includes all 1976 and newer gasoline powered vehicles, excluding motorcycles, along with all 1998 and newer diesel powered vehicles with GVWR less than 14,001 pounds.
ii	The percentage of motorist compliance based upon a comparison of the number of valid final tests with the number of subject vehicles;		
iii	The total number of compliance documents issued to inspection stations;	11,089,650	Total certificates purchased and issued to Smog Check stations. The count of certificates issued to stations is different from the count of certificates issued to consumers.
iv	The number of missing compliance documents;	N/A	Certificate sales are handled electronically by the contractor for the state's centralized database and electronic communication system. Certain rules apply pertaining to skipped certificate numbers, refunds, etc. to ensure certificate issuance compliance.
v	The number of time extensions and other exemptions granted to motorists; and	1,116 waivers 126 limited parts exemptions	A one-time waiver is issued if a vehicle fails the Smog Check test, has not been tampered and it is determined by a state contractor (Referee) that repairs would exceed the repair cost limit of \$450.

**I/M RULE SECTION 51.366 DATA ANALYSIS AND REPORTING
CALIFORNIA BUREAU OF AUTOMOTIVE REPAIR
CALENDAR YEAR 2013**

	The number of compliance surveys conducted, number of vehicles surveyed in each, and the compliance rates found.		N/A No compliance survey conducted in calendar year 2012.
(2)	Registration denial based enforcement programs shall provide the following additional information:		
	A report of the program's efforts and actions to prevent motorists from falsely registering vehicles out of the program area or falsely changing fuel type or weight class on the vehicle registration, and the results of special studies to investigate the frequency of such activity; and		
	The number of registration file audits, number of registrations reviewed, and compliance rates found in such audits.		BAR continually monitors program data and works with the Department of Motor Vehicles (DMV) on efforts to prevent motorists from falsely registering vehicles.
(3)	Computer-matching based enforcement programs shall provide the following additional information:		N/A
	The number and percentage of subject vehicles that were tested by the initial deadline, and by other milestones in the cycle;		N/A
	A report on the program's efforts to detect and enforce against motorists falsely changing vehicle classifications to circumvent program requirements, and the frequency of this type of activity; and		N/A
	The number of enforcement system audits, and the error rate found during those audits.		N/A
(4)	Sticker-based enforcement systems shall provide the following additional information:		N/A
	A report on the program's efforts to prevent, detect, and enforce against sticker theft and counterfeiting, and the frequency of this type of activity;		N/A
	A report on the program's efforts to detect and enforce against motorists falsely changing vehicle classifications to circumvent program requirements, and the frequency of this type of activity; and		N/A
	The number of parking lot sticker audits conducted, the number of vehicles surveyed in each, and the noncompliance rate found during those audits.		N/A
(e)	Additional reporting requirements. In addition to the annual reports in paragraphs (a) through (d) of this section, programs shall submit to EPA by July of every other year, biennial reports addressing:		
(1)	Any changes made in program design, funding, personnel levels, procedures, regulations, and legal authority, with detailed discussion and evaluation of the impact on the program of all such changes; and		
(2)	Any weaknesses or problems identified in the program within the two-year reporting period, what steps have already been taken to correct those problems, the results of those steps, and any future efforts planned.		N/A This section is completed every other year and will be addressed in the 2014 EPA report.

**I/M RULE SECTION 51.371 DATA ANALYSIS AND REPORTING
CALIFORNIA BUREAU OF AUTOMOTIVE REPAIR
CALENDAR YEAR 2013**

I/M Rule 51.371 Specifics		Data	Clarification
(a)	General Requirements		
	The on-road testing program shall provide information about the performance of in-use vehicles, by measuring on-road emissions through the use of remote sensing devices or by assessing vehicle emission performance through roadside pullovers including tailpipe or evaporative emission testing or a check of the onboard diagnostic (OBD) system for vehicles so equipped. The program shall collect, analyze, and report on-road testing data.	18,749 Roadside Inspections	Roadside inspections with the 2-position setup. Position 1 collected OBD data and Position 2 collected tailpipe data (model years 1976-1999). OBD data was collected for model year 1996-2006 gasoline vehicles and for 1998 and newer diesel and hybrid vehicles.
(3)			

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A-06 EPA Report 51.366 a.1
Vehicle Count (Non-Diesel)

Year:2013

Vehicle Model Year	All Vehicles		Passenger Cars		Light Duty Trucks		Medium Duty Trucks		Heavy Duty Trucks	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
0	2	0.00%	1	0.00%	0	0.00%	1	0.00%	0	0.00%
1933	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
1951	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
1955	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
1960	5	0.00%	5	0.00%	0	0.00%	0	0.00%	0	0.00%
1964	1	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1965	2	0.00%	2	0.00%	0	0.00%	0	0.00%	0	0.00%
1967	2	0.00%	1	0.00%	1	0.00%	0	0.00%	0	0.00%
1968	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
1970	2	0.00%	1	0.00%	1	0.00%	0	0.00%	0	0.00%
1971	2	0.00%	1	0.00%	1	0.00%	0	0.00%	0	0.00%
1973	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
1974	2	0.00%	2	0.00%	0	0.00%	0	0.00%	0	0.00%
1975	1	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%
1976	9,148	0.08%	4,019	0.04%	1,658	0.01%	2,402	0.02%	1,069	0.01%
1977	12,207	0.11%	4,785	0.04%	2,035	0.02%	3,841	0.03%	1,546	0.01%
1978	14,064	0.13%	5,942	0.05%	3,006	0.03%	3,154	0.03%	1,962	0.02%
1979	15,256	0.14%	6,942	0.06%	3,423	0.03%	2,944	0.03%	1,947	0.02%
1980	9,064	0.08%	4,145	0.04%	2,722	0.02%	978	0.01%	1,219	0.01%
1981	10,366	0.09%	4,791	0.04%	3,332	0.03%	673	0.01%	1,570	0.01%
1982	11,732	0.11%	5,273	0.05%	4,198	0.04%	696	0.01%	1,565	0.01%
1983	15,421	0.14%	7,292	0.07%	5,120	0.05%	1,046	0.01%	1,963	0.02%
1984	27,719	0.25%	12,272	0.11%	10,057	0.09%	1,842	0.02%	3,548	0.03%
1985	37,513	0.34%	16,866	0.15%	14,122	0.13%	2,345	0.02%	4,180	0.04%

A-06 EPA Report 51.366 a.1
Vehicle Count (Non-Diesel)

Year:2013

Vehicle Model Year	All Vehicles		Passenger Cars		Light Duty Trucks		Medium Duty Trucks		Heavy Duty Trucks	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
1986	53,509	0.48%	22,212	0.20%	23,741	0.21%	3,044	0.03%	4,512	0.04%
1987	61,668	0.55%	28,460	0.26%	24,900	0.22%	3,757	0.03%	4,551	0.04%
1988	73,996	0.67%	34,567	0.31%	27,826	0.25%	5,796	0.05%	5,807	0.05%
1989	103,812	0.93%	49,397	0.44%	37,341	0.34%	8,069	0.07%	9,005	0.08%
1990	128,341	1.15%	73,359	0.66%	36,776	0.33%	9,462	0.09%	8,744	0.08%
1991	157,884	1.42%	92,266	0.83%	49,560	0.45%	9,119	0.08%	6,939	0.06%
1992	162,411	1.46%	95,981	0.86%	46,721	0.42%	12,359	0.11%	7,350	0.07%
1993	203,875	1.83%	117,445	1.06%	63,681	0.57%	15,402	0.14%	7,347	0.07%
1994	247,595	2.23%	139,843	1.26%	73,782	0.66%	24,831	0.22%	9,139	0.08%
1995	359,658	3.24%	208,782	1.88%	99,974	0.90%	36,057	0.32%	14,845	0.13%
1996	286,735	2.58%	166,271	1.50%	81,092	0.73%	28,236	0.25%	11,136	0.10%
1997	499,217	4.49%	276,688	2.49%	152,130	1.37%	52,384	0.47%	18,015	0.16%
1998	443,819	3.99%	245,189	2.21%	137,674	1.24%	49,548	0.45%	11,408	0.10%
1999	707,004	6.36%	368,607	3.32%	197,281	1.77%	113,025	1.02%	28,091	0.25%
2000	556,030	5.00%	304,341	2.74%	152,278	1.37%	78,658	0.71%	20,753	0.19%
2001	1,032,978	9.29%	530,041	4.77%	277,984	2.50%	187,397	1.69%	37,556	0.34%
2002	530,739	4.77%	286,973	2.58%	139,213	1.25%	87,721	0.79%	16,832	0.15%
2003	1,190,144	10.71%	598,756	5.39%	308,632	2.78%	238,429	2.14%	44,327	0.40%
2004	489,302	4.40%	249,917	2.25%	122,506	1.10%	99,498	0.89%	17,381	0.16%
2005	1,310,299	11.79%	688,378	6.19%	350,605	3.15%	232,678	2.09%	38,638	0.35%
2006	434,763	3.91%	248,546	2.24%	95,157	0.86%	75,702	0.68%	15,358	0.14%
2007	1,349,412	12.14%	773,872	6.96%	307,673	2.77%	236,357	2.13%	31,510	0.28%
2008	201,792	1.82%	123,982	1.12%	39,674	0.36%	32,950	0.30%	5,186	0.05%
2009	110,878	1.00%	78,315	0.70%	17,560	0.16%	12,913	0.12%	2,090	0.02%

A-06 EPA Report 51.366 a.1
 Vehicle Count (Non-Diesel)

Year:2013

Vehicle Model Year	All Vehicles		Passenger Cars		Light Duty Trucks		Medium Duty Trucks		Heavy Duty Trucks	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
2010	72,304	0.65%	49,849	0.45%	13,043	0.12%	8,602	0.08%	810	0.01%
2011	64,930	0.58%	42,598	0.38%	12,709	0.11%	8,643	0.08%	980	0.01%
2012	80,415	0.72%	56,313	0.51%	11,911	0.11%	9,563	0.09%	2,628	0.02%
2013	38,687	0.35%	22,045	0.20%	7,684	0.07%	6,999	0.06%	1,959	0.02%
2014	2,726	0.02%	1,137	0.01%	561	0.01%	523	0.00%	505	0.00%
2015	7	0.00%	6	0.00%	1	0.00%	0	0.00%	0	0.00%
Total	11,117,444	100.00%	6,046,481	54.39%	2,959,347	26.62%	1,707,645	15.36%	403,971	3.63%

A-06 EPA Report 51.366 a.1
Vehicle Count (Diesel)

Year:2013

Vehicle Model Year	All Vehicles		Passenger Cars		Light Duty Trucks		Medium Duty Trucks		Heavy Duty Trucks	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
1976	5	0.00%	0	0.00%	1	0.00%	4	0.00%	0	0.00%
1978	1	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%
1979	1	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%
1981	3	0.00%	1	0.00%	0	0.00%	1	0.00%	1	0.00%
1982	2	0.00%	0	0.00%	2	0.00%	0	0.00%	0	0.00%
1985	3	0.00%	0	0.00%	1	0.00%	1	0.00%	1	0.00%
1986	2	0.00%	0	0.00%	0	0.00%	0	0.00%	2	0.00%
1987	5	0.00%	0	0.00%	4	0.00%	0	0.00%	1	0.00%
1988	1	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%
1990	1	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1994	1	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%
1995	1	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%
1996	1	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%
1997	2	0.00%	1	0.00%	0	0.00%	0	0.00%	1	0.00%
1998	3,516	1.53%	645	0.28%	15	0.01%	67	0.03%	2,789	1.22%
1999	11,668	5.09%	665	0.29%	31	0.01%	229	0.10%	10,743	4.68%
2000	10,862	4.74%	515	0.22%	19	0.01%	168	0.07%	10,160	4.43%
2001	15,094	6.58%	645	0.28%	40	0.02%	312	0.14%	14,097	6.15%
2002	16,283	7.10%	1,340	0.58%	28	0.01%	336	0.15%	14,579	6.36%
2003	19,836	8.65%	1,650	0.72%	63	0.03%	332	0.14%	17,791	7.76%
2004	21,818	9.51%	712	0.31%	66	0.03%	421	0.18%	20,619	8.99%
2005	24,370	10.62%	1,111	0.48%	181	0.08%	466	0.20%	22,612	9.86%
2006	29,004	12.64%	1,065	0.46%	193	0.08%	513	0.22%	27,233	11.87%
2007	16,706	7.28%	196	0.09%	51	0.02%	429	0.19%	16,030	6.99%

A-06 EPA Report 51.366 a.1
 Vehicle Count (Diesel)

Year:2013

Vehicle Model Year	All Vehicles		Passenger Cars		Light Duty Trucks		Medium Duty Trucks		Heavy Duty Trucks	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
2008	16,598	7.24%	170	0.07%	69	0.03%	334	0.15%	16,025	6.99%
2009	7,009	3.06%	2,325	1.01%	36	0.02%	647	0.28%	4,001	1.74%
2010	5,425	2.37%	2,642	1.15%	45	0.02%	650	0.28%	2,088	0.91%
2011	20,244	8.83%	7,859	3.43%	149	0.06%	2,162	0.94%	10,074	4.39%
2012	8,275	3.61%	3,631	1.58%	37	0.02%	1,006	0.44%	3,601	1.57%
2013	2,418	1.05%	906	0.39%	14	0.01%	230	0.10%	1,268	0.55%
2014	221	0.10%	55	0.02%	11	0.00%	22	0.01%	133	0.06%
Total	229,376	100.00%	26,134	11.39%	1,057	0.46%	8,333	3.63%	193,852	84.51%

A-06 EPA Report 51.366 a.2.i
 Initial Failures (Non-Diesel)

Year:2013

		Passenger Cars and Light Duty Trucks				Medium and Heavy Duty Trucks				
All Tests		ASM Tests		TSI Tests		ASM Tests		TSI Tests		
Vehicle Model Year	Count	Percent	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
0	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
1965	1	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1967	1	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1970	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
1971	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
1973	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
1974	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
1975	1	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%
1976	3,020	0.22%	1,758	0.13%	249	0.02%	573	0.04%	439	0.03%
1977	4,103	0.30%	2,261	0.17%	271	0.02%	915	0.07%	656	0.05%
1978	4,649	0.34%	2,775	0.20%	355	0.03%	807	0.06%	712	0.05%
1979	5,309	0.39%	3,249	0.24%	400	0.03%	1,011	0.07%	649	0.05%
1980	3,043	0.22%	2,087	0.15%	238	0.02%	409	0.03%	309	0.02%
1981	3,741	0.28%	2,752	0.20%	310	0.02%	354	0.03%	325	0.02%
1982	4,226	0.31%	3,158	0.23%	389	0.03%	342	0.03%	337	0.02%
1983	5,590	0.41%	4,201	0.31%	497	0.04%	497	0.04%	395	0.03%
1984	10,327	0.76%	7,719	0.57%	863	0.06%	908	0.07%	837	0.06%
1985	13,633	1.00%	10,372	0.76%	1,184	0.09%	1,186	0.09%	891	0.07%
1986	18,738	1.38%	14,625	1.08%	1,700	0.13%	1,417	0.10%	996	0.07%
1987	21,602	1.59%	17,403	1.28%	1,869	0.14%	1,352	0.10%	978	0.07%
1988	24,746	1.82%	19,366	1.43%	2,074	0.15%	2,126	0.16%	1,179	0.09%
1989	33,179	2.44%	25,980	1.91%	2,539	0.19%	3,238	0.24%	1,421	0.10%
1990	40,212	2.96%	32,593	2.40%	2,928	0.22%	3,383	0.25%	1,308	0.10%
1991	48,410	3.56%	40,741	3.00%	3,855	0.28%	2,645	0.19%	1,169	0.09%

A-06 EPA Report 51.366 a.2.i
Initial Failures (Non-Diesel)

Year:2013

Vehicle Model Year	Passenger Cars and Light Duty Trucks										Medium and Heavy Duty Trucks			
	All Tests		ASM Tests		TSI Tests		ASM Tests		TSI Tests		Count	Percent of All Vehicles	Count	Percent of All Vehicles
	Count	Percent	Count	Percent of All Vehicles										
1992	49,583	3.65%	41,095	3.02%	3,612	0.27%	3,705	0.27%	1,170	0.09%				
1993	65,594	4.83%	54,905	4.04%	4,824	0.36%	4,555	0.34%	1,309	0.10%				
1994	73,658	5.42%	60,037	4.42%	5,404	0.40%	6,391	0.47%	1,824	0.13%				
1995	94,447	6.95%	77,162	5.68%	6,635	0.49%	8,401	0.62%	2,246	0.17%				
1996	68,779	5.06%	56,598	4.17%	5,925	0.44%	4,666	0.34%	1,589	0.12%				
1997	96,294	7.09%	77,757	5.72%	8,810	0.65%	7,334	0.54%	2,393	0.18%				
1998	78,197	5.76%	61,737	4.54%	7,718	0.57%	6,627	0.49%	2,115	0.16%				
1999	89,888	6.62%	64,167	4.72%	10,178	0.75%	11,601	0.85%	3,941	0.29%				
2000	74,017	5.45%	55,897	4.11%	7,101	0.52%	7,271	0.54%	3,747	0.28%				
2001	119,849	8.82%	82,217	6.05%	12,963	0.95%	16,889	1.24%	7,780	0.57%				
2002	60,915	4.48%	41,582	3.06%	8,319	0.61%	7,514	0.55%	3,500	0.26%				
2003	87,216	6.42%	56,235	4.14%	10,841	0.80%	14,598	1.07%	5,542	0.41%				
2004	34,528	2.54%	22,372	1.65%	4,646	0.34%	5,167	0.38%	2,343	0.17%				
2005	58,208	4.28%	39,902	2.94%	7,832	0.58%	7,222	0.53%	3,251	0.24%				
2006	18,849	1.39%	12,348	0.91%	2,952	0.22%	2,387	0.18%	1,161	0.09%				
2007	34,342	2.53%	21,948	1.62%	4,864	0.36%	5,295	0.39%	2,235	0.16%				
2008	4,050	0.30%	2,573	0.19%	694	0.05%	493	0.04%	289	0.02%				
2009	2,028	0.15%	1,387	0.10%	375	0.03%	155	0.01%	110	0.01%				
2010	1,129	0.08%	748	0.06%	249	0.02%	74	0.01%	57	0.00%				
2011	951	0.07%	628	0.05%	205	0.02%	59	0.00%	56	0.00%				
2012	944	0.07%	646	0.05%	169	0.01%	84	0.01%	40	0.00%				
2013	547	0.04%	244	0.02%	133	0.01%	66	0.00%	59	0.00%				
2014	50	0.00%	16	0.00%	16	0.00%	9	0.00%	9	0.00%				
Total	1,358,599	100.00%	1,023,246	75.32%	134,187	9.88%	141,727	10.43%	59,367	4.37%				

A-06 EPA Report 51.366 a.2.i
 Initial Failures (Diesel)

Year:2013

Vehicle Model Year	All Vehicles		Passenger Cars and Light Duty Trucks		Medium and Heavy Duty Trucks	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of All Vehicles
1976	1	0.01%	0	0.00%	1	0.01%
1981	1	0.01%	1	0.01%	0	0.00%
1982	2	0.02%	2	0.02%	0	0.00%
1986	1	0.01%	0	0.00%	1	0.01%
1987	1	0.01%	1	0.01%	0	0.00%
1990	1	0.01%	1	0.01%	0	0.00%
1997	1	0.01%	0	0.00%	1	0.01%
1998	381	4.10%	69	0.74%	312	3.36%
1999	817	8.79%	54	0.58%	763	8.21%
2000	623	6.70%	63	0.68%	560	6.03%
2001	1,108	11.92%	107	1.15%	1,001	10.77%
2002	1,212	13.04%	143	1.54%	1,069	11.50%
2003	1,528	16.44%	178	1.92%	1,350	14.53%
2004	1,016	10.93%	60	0.65%	956	10.29%
2005	950	10.22%	76	0.82%	874	9.41%
2006	850	9.15%	41	0.44%	809	8.71%
2007	364	3.92%	2	0.02%	362	3.90%
2008	212	2.28%	3	0.03%	209	2.25%
2009	74	0.80%	35	0.38%	39	0.42%
2010	41	0.44%	15	0.16%	26	0.28%
2011	87	0.94%	12	0.13%	75	0.81%
2012	19	0.20%	4	0.04%	15	0.16%
2013	2	0.02%	1	0.01%	1	0.01%
Total	9,292	100.00%	868	9.34%	8,424	90.66%

A-06 EPA Report 51.366 a.2.ii
 First Re-test Failures (Non-Diesel)

Year:2013

Vehicle Model Year	Passenger Cars and Light Duty Trucks				Medium and Heavy Duty Trucks					
	All Tests		ASM Tests		TSI Tests		ASM Tests		TSI Tests	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
1976	704	0.28%	466	0.18%	42	0.02%	117	0.05%	79	0.03%
1977	965	0.38%	625	0.25%	46	0.02%	177	0.07%	117	0.05%
1978	1,042	0.41%	678	0.27%	64	0.03%	164	0.06%	136	0.05%
1979	1,255	0.49%	818	0.32%	64	0.03%	257	0.10%	116	0.05%
1980	751	0.30%	543	0.21%	40	0.02%	117	0.05%	51	0.02%
1981	989	0.39%	795	0.31%	52	0.02%	85	0.03%	57	0.02%
1982	1,083	0.43%	884	0.35%	66	0.03%	82	0.03%	51	0.02%
1983	1,474	0.58%	1,205	0.48%	79	0.03%	128	0.05%	62	0.02%
1984	2,732	1.08%	2,186	0.86%	165	0.07%	240	0.09%	141	0.06%
1985	3,595	1.42%	2,912	1.15%	195	0.08%	338	0.13%	150	0.06%
1986	4,921	1.94%	4,063	1.60%	282	0.11%	417	0.16%	159	0.06%
1987	5,781	2.28%	4,959	1.95%	322	0.13%	333	0.13%	167	0.07%
1988	6,381	2.52%	5,358	2.11%	298	0.12%	535	0.21%	190	0.07%
1989	8,248	3.25%	6,807	2.68%	408	0.16%	817	0.32%	216	0.09%
1990	10,103	3.98%	8,600	3.39%	479	0.19%	832	0.33%	191	0.08%
1991	12,376	4.88%	10,985	4.33%	571	0.23%	629	0.25%	191	0.08%
1992	12,869	5.07%	11,199	4.41%	604	0.24%	886	0.35%	180	0.07%
1993	18,284	7.21%	16,164	6.37%	758	0.30%	1,186	0.47%	176	0.07%
1994	19,904	7.85%	17,355	6.84%	824	0.32%	1,481	0.58%	244	0.10%
1995	24,469	9.65%	21,345	8.41%	956	0.38%	1,862	0.73%	306	0.12%
1996	15,129	5.96%	13,492	5.32%	859	0.34%	605	0.24%	173	0.07%
1997	19,138	7.54%	16,966	6.69%	994	0.39%	910	0.36%	268	0.11%
1998	14,552	5.74%	12,644	4.98%	879	0.35%	780	0.31%	248	0.10%
1999	13,623	5.37%	11,135	4.39%	985	0.39%	1,140	0.45%	363	0.14%
2000	10,951	4.32%	9,105	3.59%	695	0.27%	747	0.29%	404	0.16%
2001	14,391	5.67%	11,023	4.35%	1,210	0.48%	1,456	0.57%	702	0.28%

A-06 EPA Report 51.366 a.2.ii
 First Re-test Failures (Non-Diesel)

Year:2013

Vehicle Model Year	All Tests		Passenger Cars and Light Duty Trucks				Medium and Heavy Duty Trucks			
	Count	Percent	ASM Tests		TSI Tests		ASM Tests		TSI Tests	
			Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
2002	7,458	2.94%	5,728	2.26%	729	0.29%	695	0.27%	306	0.12%
2003	8,428	3.32%	6,238	2.46%	847	0.33%	950	0.37%	393	0.15%
2004	3,514	1.39%	2,592	1.02%	336	0.13%	388	0.15%	198	0.08%
2005	4,527	1.78%	3,373	1.33%	496	0.20%	457	0.18%	201	0.08%
2006	1,621	0.64%	1,132	0.45%	225	0.09%	194	0.08%	70	0.03%
2007	1,924	0.76%	1,369	0.54%	250	0.10%	214	0.08%	91	0.04%
2008	201	0.08%	141	0.06%	34	0.01%	13	0.01%	13	0.01%
2009	126	0.05%	93	0.04%	19	0.01%	7	0.00%	7	0.00%
2010	52	0.02%	39	0.02%	8	0.00%	3	0.00%	2	0.00%
2011	52	0.02%	39	0.02%	10	0.00%	1	0.00%	2	0.00%
2012	51	0.02%	35	0.01%	10	0.00%	6	0.00%	0	0.00%
2013	18	0.01%	11	0.00%	4	0.00%	0	0.00%	3	0.00%
2014	1	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%
Total	253,683	100.00%	213,102	84.00%	14,905	5.88%	19,250	7.59%	6,424	2.53%

A-06 EPA Report 51.366 a.2.ii
 First Re-test Failures (Diesel)

Year:2013

Vehicle Model Year	All Vehicles		Passenger Cars and Light Duty Trucks		Medium and Heavy Duty Trucks	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of All Vehicles
1998	42	6.33%	6	0.90%	36	5.43%
1999	60	9.05%	6	0.90%	54	8.14%
2000	28	4.22%	3	0.45%	25	3.77%
2001	115	17.35%	10	1.51%	105	15.84%
2002	104	15.69%	8	1.21%	96	14.48%
2003	157	23.68%	26	3.92%	131	19.76%
2004	70	10.56%	4	0.60%	66	9.95%
2005	48	7.24%	5	0.75%	43	6.49%
2006	26	3.92%	3	0.45%	23	3.47%
2007	8	1.21%	0	0.00%	8	1.21%
2008	1	0.15%	0	0.00%	1	0.15%
2009	2	0.30%	0	0.00%	2	0.30%
2011	2	0.30%	0	0.00%	2	0.30%
Total	663	100.00%	71	10.71%	592	89.29%

A-06 EPA Report 51.366 a.2.iii
 First Re-test Passes (Non-Diesel)

Year:2013

Vehicle Model Year	Passenger Cars and Light Duty Trucks				Medium and Heavy Duty Trucks					
	All Tests		ASM Tests		TSI Tests		ASM Tests		TSI Tests	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
1976	1,976	0.20%	1,116	0.12%	174	0.02%	388	0.04%	298	0.03%
1977	2,664	0.28%	1,349	0.14%	193	0.02%	655	0.07%	467	0.05%
1978	3,093	0.32%	1,754	0.18%	275	0.03%	573	0.06%	491	0.05%
1979	3,420	0.35%	2,032	0.21%	327	0.03%	614	0.06%	447	0.05%
1980	1,991	0.21%	1,309	0.14%	191	0.02%	249	0.03%	242	0.03%
1981	2,277	0.24%	1,594	0.16%	229	0.02%	210	0.02%	244	0.03%
1982	2,595	0.27%	1,863	0.19%	284	0.03%	200	0.02%	248	0.03%
1983	3,331	0.34%	2,370	0.25%	371	0.04%	293	0.03%	297	0.03%
1984	6,152	0.64%	4,351	0.45%	648	0.07%	523	0.05%	630	0.07%
1985	8,281	0.86%	6,023	0.62%	901	0.09%	692	0.07%	665	0.07%
1986	11,483	1.19%	8,623	0.89%	1,330	0.14%	800	0.08%	730	0.08%
1987	13,116	1.36%	10,053	1.04%	1,492	0.15%	843	0.09%	728	0.08%
1988	14,905	1.54%	11,040	1.14%	1,621	0.17%	1,319	0.14%	925	0.10%
1989	20,571	2.13%	15,440	1.60%	1,975	0.20%	2,025	0.21%	1,131	0.12%
1990	25,006	2.59%	19,473	2.01%	2,265	0.23%	2,219	0.23%	1,049	0.11%
1991	29,905	3.09%	24,163	2.50%	3,047	0.32%	1,755	0.18%	940	0.10%
1992	30,596	3.17%	24,396	2.52%	2,772	0.29%	2,473	0.26%	955	0.10%
1993	39,364	4.07%	31,518	3.26%	3,751	0.39%	2,980	0.31%	1,115	0.12%
1994	45,516	4.71%	35,353	3.66%	4,354	0.45%	4,274	0.44%	1,535	0.16%
1995	60,221	6.23%	47,111	4.87%	5,338	0.55%	5,914	0.61%	1,858	0.19%
1996	44,646	4.62%	35,402	3.66%	4,389	0.45%	3,608	0.37%	1,247	0.13%
1997	66,390	6.87%	51,824	5.36%	6,930	0.72%	5,686	0.59%	1,950	0.20%
1998	55,199	5.71%	42,228	4.37%	6,088	0.63%	5,208	0.54%	1,675	0.17%
1999	67,204	6.95%	46,417	4.80%	8,196	0.85%	9,355	0.97%	3,236	0.33%
2000	56,099	5.80%	41,141	4.26%	5,768	0.60%	6,084	0.63%	3,106	0.32%
2001	94,252	9.75%	63,074	6.52%	10,592	1.10%	14,114	1.46%	6,472	0.67%
2002	48,837	5.05%	32,350	3.35%	6,861	0.71%	6,608	0.68%	3,018	0.31%

A-06 EPA Report 51.366 a.2.iii
 First Re-test Passes (Non-Diesel)

Year:2013

Vehicle Model Year	Passenger Cars and Light Duty Trucks										Medium and Heavy Duty Trucks			
	All Tests		ASM Tests		TSI Tests		ASM Tests		TSI Tests		Count	Percent of All Vehicles	Count	Percent of All Vehicles
	Count	Percent	Count	Percent of All Vehicles										
2003	72,149	7.46%	45,559	4.71%	9,201	0.95%	12,624	1.31%	4,765	0.49%				
2004	29,281	3.03%	18,445	1.91%	4,122	0.43%	4,651	0.48%	2,063	0.21%				
2005	49,634	5.13%	33,587	3.47%	6,795	0.70%	6,384	0.66%	2,868	0.30%				
2006	17,105	1.77%	11,052	1.14%	2,708	0.28%	2,249	0.23%	1,096	0.11%				
2007	30,332	3.14%	19,094	1.98%	4,398	0.45%	4,827	0.50%	2,013	0.21%				
2008	3,624	0.37%	2,242	0.23%	651	0.07%	459	0.05%	272	0.03%				
2009	1,991	0.21%	1,357	0.14%	367	0.04%	166	0.02%	101	0.01%				
2010	1,059	0.11%	685	0.07%	246	0.03%	70	0.01%	58	0.01%				
2011	871	0.09%	570	0.06%	194	0.02%	53	0.01%	54	0.01%				
2012	1,017	0.11%	722	0.07%	171	0.02%	83	0.01%	41	0.00%				
2013	465	0.05%	222	0.02%	121	0.01%	71	0.01%	51	0.01%				
2014	41	0.00%	12	0.00%	14	0.00%	7	0.00%	8	0.00%				
Total	966,659	100.00%	696,914	72.10%	109,350	11.31%	111,306	11.51%	49,089	5.08%				

A-06 EPA Report 51.366 a.2.iii
 First Re-test Passes (Diesel)

Year:2013

Vehicle Model Year	All Vehicles		Passenger Cars and Light Duty Trucks		Medium and Heavy Duty Trucks	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of All Vehicles
1998	306	3.81%	59	0.74%	247	3.08%
1999	698	8.70%	43	0.54%	655	8.16%
2000	540	6.73%	57	0.71%	483	6.02%
2001	916	11.42%	87	1.08%	829	10.33%
2002	1,007	12.55%	124	1.55%	883	11.00%
2003	1,257	15.67%	140	1.74%	1,117	13.92%
2004	900	11.22%	48	0.60%	852	10.62%
2005	850	10.59%	59	0.74%	791	9.86%
2006	798	9.95%	32	0.40%	766	9.55%
2007	330	4.11%	1	0.01%	329	4.10%
2008	206	2.57%	4	0.05%	202	2.52%
2009	67	0.83%	31	0.39%	36	0.45%
2010	38	0.47%	12	0.15%	26	0.32%
2011	87	1.08%	11	0.14%	76	0.95%
2012	21	0.26%	4	0.05%	17	0.21%
2013	3	0.04%	1	0.01%	2	0.02%
Total	8,024	100.00%	713	8.89%	7,311	91.11%

A-06 EPA Report 51.366 a.2.iv
 Second or Later Passes (Non-Diesel)

Year:2013

Vehicle Model Year	Passenger Cars and Light Duty Trucks				Medium and Heavy Duty Trucks					
	All Tests		ASM Tests		TSI Tests		ASM Tests		TSI Tests	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
1976	682	0.27%	451	0.18%	45	0.02%	110	0.04%	76	0.03%
1977	970	0.39%	626	0.25%	48	0.02%	185	0.07%	111	0.04%
1978	1,031	0.41%	695	0.28%	63	0.03%	156	0.06%	117	0.05%
1979	1,281	0.51%	832	0.33%	64	0.03%	256	0.10%	129	0.05%
1980	747	0.30%	546	0.22%	39	0.02%	108	0.04%	54	0.02%
1981	974	0.39%	772	0.31%	57	0.02%	85	0.03%	60	0.02%
1982	1,048	0.42%	873	0.35%	49	0.02%	73	0.03%	53	0.02%
1983	1,472	0.59%	1,193	0.48%	74	0.03%	133	0.05%	72	0.03%
1984	2,713	1.09%	2,165	0.87%	154	0.06%	249	0.10%	145	0.06%
1985	3,572	1.44%	2,900	1.17%	190	0.08%	317	0.13%	165	0.07%
1986	4,900	1.97%	4,023	1.62%	284	0.11%	410	0.16%	183	0.07%
1987	5,736	2.31%	4,899	1.97%	299	0.12%	347	0.14%	191	0.08%
1988	6,253	2.51%	5,232	2.10%	297	0.12%	534	0.21%	190	0.08%
1989	8,155	3.28%	6,723	2.70%	412	0.17%	804	0.32%	216	0.09%
1990	9,976	4.01%	8,472	3.40%	451	0.18%	863	0.35%	190	0.08%
1991	12,224	4.91%	10,790	4.34%	592	0.24%	644	0.26%	198	0.08%
1992	12,740	5.12%	11,047	4.44%	600	0.24%	896	0.36%	197	0.08%
1993	18,113	7.28%	15,936	6.40%	779	0.31%	1,202	0.48%	196	0.08%
1994	19,782	7.95%	17,186	6.91%	831	0.33%	1,498	0.60%	267	0.11%
1995	24,654	9.91%	21,401	8.60%	983	0.40%	1,943	0.78%	327	0.13%
1996	14,479	5.82%	12,929	5.20%	799	0.32%	574	0.23%	177	0.07%
1997	18,843	7.57%	16,681	6.70%	988	0.40%	909	0.37%	265	0.11%
1998	14,018	5.63%	12,183	4.90%	843	0.34%	758	0.30%	234	0.09%
1999	13,468	5.41%	11,075	4.45%	941	0.38%	1,104	0.44%	348	0.14%
2000	10,445	4.20%	8,666	3.48%	684	0.27%	721	0.29%	374	0.15%
2001	13,628	5.48%	10,489	4.22%	1,106	0.44%	1,378	0.55%	655	0.26%

A-06 EPA Report 51.366 a.2.iv
 Second or Later Passes (Non-Diesel)

Year:2013

Vehicle Model Year	All Tests		Passenger Cars and Light Duty Trucks				Medium and Heavy Duty Trucks			
	Count	Percent	ASM Tests		TSI Tests		ASM Tests		TSI Tests	
			Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
2002	7,117	2.86%	5,448	2.19%	678	0.27%	698	0.28%	293	0.12%
2003	8,049	3.23%	5,917	2.38%	795	0.32%	962	0.39%	375	0.15%
2004	3,420	1.37%	2,515	1.01%	317	0.13%	395	0.16%	193	0.08%
2005	4,265	1.71%	3,180	1.28%	461	0.19%	432	0.17%	192	0.08%
2006	1,659	0.67%	1,129	0.45%	252	0.10%	198	0.08%	80	0.03%
2007	1,870	0.75%	1,330	0.53%	238	0.10%	211	0.08%	91	0.04%
2008	214	0.09%	153	0.06%	37	0.01%	13	0.01%	11	0.00%
2009	133	0.05%	97	0.04%	24	0.01%	9	0.00%	3	0.00%
2010	59	0.02%	42	0.02%	11	0.00%	4	0.00%	2	0.00%
2011	60	0.02%	39	0.02%	13	0.01%	5	0.00%	3	0.00%
2012	53	0.02%	37	0.01%	10	0.00%	6	0.00%	0	0.00%
2013	21	0.01%	14	0.01%	3	0.00%	0	0.00%	4	0.00%
2014	1	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%
Total	248,825	100.00%	208,686	83.87%	14,511	5.83%	19,191	7.71%	6,437	2.59%

A-06 EPA Report 51.366 a.2.iv
 Second or Later Passes (Diesel)

Year:2013

Vehicle Model Year	All Vehicles		Passenger Cars and Light Duty Trucks		Medium and Heavy Duty Trucks	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of All Vehicles
1998	31	5.16%	9	1.50%	22	3.66%
1999	51	8.49%	4	0.67%	47	7.82%
2000	24	3.99%	2	0.33%	22	3.66%
2001	105	17.47%	11	1.83%	94	15.64%
2002	95	15.81%	8	1.33%	87	14.48%
2003	147	24.46%	26	4.33%	121	20.13%
2004	60	9.98%	3	0.50%	57	9.48%
2005	51	8.49%	7	1.16%	44	7.32%
2006	25	4.16%	2	0.33%	23	3.83%
2007	8	1.33%	0	0.00%	8	1.33%
2008	1	0.17%	0	0.00%	1	0.17%
2009	1	0.17%	0	0.00%	1	0.17%
2011	2	0.33%	0	0.00%	2	0.33%
Total	601	100.00%	72	11.98%	529	88.02%

A-06 EPA Report 51.366 a.2.v
Vehicles Receiving a Waiver (Non-Diesel)

Year:2013

Vehicle Model Year	Passenger Cars and Light Duty Trucks				Medium and Heavy Duty Trucks					
	All Tests		ASM Tests		TSI Tests		ASM Tests		TSI Tests	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
1976	2	0.18%	1	0.09%	1	0.09%	0	0.00%	0	0.00%
1977	4	0.36%	4	0.36%	0	0.00%	0	0.00%	0	0.00%
1978	2	0.18%	1	0.09%	0	0.00%	0	0.00%	1	0.09%
1979	1	0.09%	1	0.09%	0	0.00%	0	0.00%	0	0.00%
1980	2	0.18%	2	0.18%	0	0.00%	0	0.00%	0	0.00%
1981	3	0.27%	3	0.27%	0	0.00%	0	0.00%	0	0.00%
1982	1	0.09%	1	0.09%	0	0.00%	0	0.00%	0	0.00%
1983	6	0.54%	5	0.45%	1	0.09%	0	0.00%	0	0.00%
1984	9	0.80%	8	0.71%	1	0.09%	0	0.00%	0	0.00%
1985	9	0.80%	8	0.71%	1	0.09%	0	0.00%	0	0.00%
1986	8	0.71%	7	0.63%	1	0.09%	0	0.00%	0	0.00%
1987	20	1.79%	17	1.52%	1	0.09%	1	0.09%	1	0.09%
1988	16	1.43%	13	1.16%	0	0.00%	3	0.27%	0	0.00%
1989	21	1.88%	16	1.43%	2	0.18%	1	0.09%	2	0.18%
1990	18	1.61%	17	1.52%	1	0.09%	0	0.00%	0	0.00%
1991	25	2.23%	23	2.06%	1	0.09%	1	0.09%	0	0.00%
1992	29	2.59%	28	2.50%	0	0.00%	0	0.00%	1	0.09%
1993	52	4.65%	45	4.02%	3	0.27%	4	0.36%	0	0.00%
1994	43	3.84%	36	3.22%	2	0.18%	4	0.36%	1	0.09%
1995	65	5.81%	57	5.09%	4	0.36%	3	0.27%	1	0.09%
1996	78	6.97%	60	5.36%	17	1.52%	1	0.09%	0	0.00%
1997	79	7.06%	69	6.17%	7	0.63%	1	0.09%	2	0.18%
1998	81	7.24%	70	6.26%	6	0.54%	2	0.18%	3	0.27%
1999	70	6.26%	57	5.09%	3	0.27%	6	0.54%	4	0.36%

A-06 EPA Report 51.366 a.2.v
Vehicles Receiving a Waiver (Non-Diesel)

Year:2013

Vehicle Model Year	All Tests		Passenger Cars and Light Duty Trucks				Medium and Heavy Duty Trucks			
	Count	Percent	ASM Tests		TSI Tests		ASM Tests		TSI Tests	
			Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
2000	77	6.88%	66	5.90%	4	0.36%	3	0.27%	4	0.36%
2001	158	14.12%	126	11.26%	18	1.61%	10	0.89%	4	0.36%
2002	70	6.26%	52	4.65%	8	0.71%	7	0.63%	3	0.27%
2003	72	6.43%	55	4.92%	10	0.89%	5	0.45%	2	0.18%
2004	40	3.57%	30	2.68%	6	0.54%	3	0.27%	1	0.09%
2005	39	3.49%	30	2.68%	6	0.54%	3	0.27%	0	0.00%
2006	12	1.07%	6	0.54%	4	0.36%	2	0.18%	0	0.00%
2007	7	0.63%	4	0.36%	3	0.27%	0	0.00%	0	0.00%
Total	1,119	100.00%	918	82.04%	111	9.92%	60	5.36%	30	2.68%

A-06 EPA Report 51.366 a.2.v
 Vehicles Receiving a Waiver (Diesel)

Year:2013

Vehicle Model Year	All Vehicles		Passenger Cars and Light Duty Trucks		Medium and Heavy Duty Trucks	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of All Vehicles
1999	3	75.00%	1	25.00%	2	50.00%
2002	1	25.00%	0	0.00%	1	25.00%
Total	4	100.00%	1	25.00%	3	75.00%

A-06 EPA Report 51.366 a.2.vi
Vehicles with No Known Outcome (Non-Diesel)

Year:2013

Vehicle Model Year	Passenger Cars and Light Duty Trucks				Medium and Heavy Duty Trucks					
	All Tests		ASM Tests		TSI Tests		ASM Tests		TSI Tests	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
1965	1	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1967	1	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1970	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
1971	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
1973	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
1974	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
1975	1	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%
1976	638	0.30%	348	0.16%	55	0.03%	125	0.06%	110	0.05%
1977	873	0.41%	473	0.22%	61	0.03%	173	0.08%	166	0.08%
1978	970	0.46%	559	0.26%	78	0.04%	160	0.08%	173	0.08%
1979	1,070	0.51%	641	0.30%	76	0.04%	202	0.10%	151	0.07%
1980	617	0.29%	404	0.19%	64	0.03%	87	0.04%	62	0.03%
1981	834	0.40%	602	0.29%	75	0.04%	86	0.04%	71	0.03%
1982	921	0.44%	670	0.32%	103	0.05%	80	0.04%	68	0.03%
1983	1,281	0.61%	967	0.46%	130	0.06%	105	0.05%	79	0.04%
1984	2,287	1.08%	1,677	0.79%	212	0.10%	219	0.10%	179	0.08%
1985	2,907	1.38%	2,189	1.04%	291	0.14%	256	0.12%	171	0.08%
1986	3,970	1.88%	3,081	1.46%	415	0.20%	288	0.14%	186	0.09%
1987	4,616	2.19%	3,728	1.77%	438	0.21%	272	0.13%	178	0.08%
1988	5,497	2.61%	4,377	2.07%	466	0.22%	427	0.20%	227	0.11%
1989	6,920	3.28%	5,477	2.60%	572	0.27%	608	0.29%	262	0.12%
1990	8,173	3.87%	6,729	3.19%	660	0.31%	558	0.26%	226	0.11%
1991	9,696	4.60%	8,262	3.92%	807	0.38%	440	0.21%	187	0.09%
1992	9,646	4.57%	8,098	3.84%	785	0.37%	575	0.27%	187	0.09%

A-06 EPA Report 51.366 a.2.vi
Vehicles with No Known Outcome (Non-Diesel)

Year:2013

Vehicle Model Year	Passenger Cars and Light Duty Trucks										Medium and Heavy Duty Trucks			
	All Tests		ASM Tests		TSI Tests		ASM Tests		TSI Tests		Count	Percent of All Vehicles	Count	Percent of All Vehicles
	Count	Percent	Count	Percent of All Vehicles										
1993	12,311	5.84%	10,429	4.94%	1,034	0.49%	662	0.31%	186	0.09%				
1994	13,016	6.17%	10,753	5.10%	1,043	0.49%	970	0.46%	249	0.12%				
1995	15,321	7.26%	12,735	6.04%	1,175	0.56%	1,104	0.52%	306	0.15%				
1996	13,176	6.25%	10,869	5.15%	1,250	0.59%	784	0.37%	273	0.13%				
1997	15,340	7.27%	12,355	5.86%	1,537	0.73%	1,113	0.53%	335	0.16%				
1998	12,668	6.00%	10,011	4.75%	1,265	0.60%	1,059	0.50%	333	0.16%				
1999	12,396	5.88%	8,860	4.20%	1,454	0.69%	1,595	0.76%	487	0.23%				
2000	11,370	5.39%	8,786	4.16%	1,161	0.55%	918	0.44%	505	0.24%				
2001	14,318	6.79%	10,339	4.90%	1,597	0.76%	1,575	0.75%	807	0.38%				
2002	8,216	3.89%	5,931	2.81%	1,145	0.54%	744	0.35%	396	0.19%				
2003	8,177	3.88%	5,632	2.67%	1,004	0.48%	1,097	0.52%	444	0.21%				
2004	4,016	1.90%	2,757	1.31%	512	0.24%	504	0.24%	243	0.12%				
2005	4,625	2.19%	3,274	1.55%	619	0.29%	507	0.24%	224	0.11%				
2006	1,956	0.93%	1,310	0.62%	291	0.14%	235	0.11%	119	0.06%				
2007	2,259	1.07%	1,514	0.72%	309	0.15%	289	0.14%	147	0.07%				
2008	345	0.16%	227	0.11%	70	0.03%	29	0.01%	18	0.01%				
2009	133	0.06%	96	0.05%	21	0.01%	5	0.00%	10	0.00%				
2010	121	0.06%	79	0.04%	28	0.01%	10	0.00%	3	0.00%				
2011	112	0.05%	70	0.03%	25	0.01%	8	0.00%	6	0.00%				
2012	75	0.04%	46	0.02%	15	0.01%	5	0.00%	4	0.00%				
2013	83	0.04%	22	0.01%	13	0.01%	1	0.00%	2	0.00%				
2014	5	0.00%	3	0.00%	0	0.00%	1	0.00%	1	0.00%				
Total	210,962	100.00%	164,384	77.92%	20,857	9.89%	17,877	8.47%	7,781	3.69%				

A-06 EPA Report 51.366 a.2.vi
 Vehicles with No Known Outcome (Diesel)

Year:2013

Vehicle Model Year	All Vehicles		Passenger Cars and Light Duty Trucks		Medium and Heavy Duty Trucks	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of All Vehicles
1976	1	0.12%	0	0.00%	1	0.12%
1981	1	0.12%	1	0.12%	0	0.00%
1982	2	0.24%	2	0.24%	0	0.00%
1986	1	0.12%	0	0.00%	1	0.12%
1987	1	0.12%	1	0.12%	0	0.00%
1990	1	0.12%	1	0.12%	0	0.00%
1997	1	0.12%	0	0.00%	1	0.12%
1998	59	7.11%	7	0.84%	52	6.27%
1999	81	9.76%	6	0.72%	75	9.04%
2000	63	7.59%	7	0.84%	56	6.75%
2001	87	10.48%	6	0.72%	81	9.76%
2002	119	14.34%	10	1.20%	109	13.13%
2003	134	16.14%	13	1.57%	121	14.58%
2004	93	11.20%	5	0.60%	88	10.60%
2005	77	9.28%	7	0.84%	70	8.43%
2006	57	6.87%	7	0.84%	50	6.02%
2007	26	3.13%	0	0.00%	26	3.13%
2008	7	0.84%	0	0.00%	7	0.84%
2009	7	0.84%	5	0.60%	2	0.24%
2010	4	0.48%	2	0.24%	2	0.24%
2011	7	0.84%	1	0.12%	6	0.72%
2012	1	0.12%	0	0.00%	1	0.12%
Total	830	100.00%	81	9.76%	749	90.24%

A-06 EPA Report 51.366 a.2.xi
Vehicles Passing the Initial On-board Diagnostic Check (Non-Diesel)

Year:2013

Vehicle Model Year	All Vehicles		Passenger Cars		Light Duty Trucks		Medium Duty Trucks		Heavy Duty Trucks	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
1996	252,036	2.86%	146,337	1.66%	70,395	0.80%	25,184	0.29%	10,120	0.11%
1997	449,053	5.09%	249,964	2.83%	135,614	1.54%	46,905	0.53%	16,570	0.19%
1998	398,893	4.52%	221,522	2.51%	123,065	1.40%	43,887	0.50%	10,419	0.12%
1999	650,412	7.37%	339,119	3.84%	182,248	2.07%	102,988	1.17%	26,057	0.30%
2000	504,756	5.72%	275,965	3.13%	138,456	1.57%	71,120	0.81%	19,215	0.22%
2001	936,119	10.61%	481,761	5.46%	251,348	2.85%	168,743	1.91%	34,267	0.39%
2002	481,919	5.46%	260,422	2.95%	126,383	1.43%	79,756	0.90%	15,358	0.17%
2003	1,119,770	12.70%	563,755	6.39%	290,530	3.29%	223,950	2.54%	41,535	0.47%
2004	461,178	5.23%	234,739	2.66%	115,900	1.31%	94,320	1.07%	16,219	0.18%
2005	1,262,349	14.31%	661,861	7.50%	337,691	3.83%	226,020	2.56%	36,777	0.42%
2006	419,393	4.75%	239,940	2.72%	91,358	1.04%	73,377	0.83%	14,718	0.17%
2007	1,320,693	14.97%	758,116	8.60%	301,179	3.41%	230,900	2.62%	30,498	0.35%
2008	198,578	2.25%	121,993	1.38%	39,104	0.44%	32,401	0.37%	5,080	0.06%
2009	109,161	1.24%	77,088	0.87%	17,305	0.20%	12,722	0.14%	2,046	0.02%
2010	71,359	0.81%	49,192	0.56%	12,873	0.15%	8,497	0.10%	797	0.01%
2011	64,120	0.73%	42,004	0.48%	12,594	0.14%	8,548	0.10%	974	0.01%
2012	79,586	0.90%	55,711	0.63%	11,791	0.13%	9,482	0.11%	2,602	0.03%
2013	38,059	0.43%	21,626	0.25%	7,595	0.09%	6,913	0.08%	1,925	0.02%
2014	2,677	0.03%	1,114	0.01%	554	0.01%	507	0.01%	502	0.01%
2015	7	0.00%	6	0.00%	1	0.00%	0	0.00%	0	0.00%
Total	8,820,118	100.00%	4,802,235	54.45%	2,265,984	25.69%	1,466,220	16.62%	285,679	3.24%

A-06 EPA Report 51.366 a.2.xi
Vehicles Passing the Initial On-board Diagnostic Check (Diesel)

Year:2013

Vehicle Model Year	All Vehicles		Passenger Cars		Light Duty Trucks		Medium Duty Trucks		Heavy Duty Trucks	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
1997	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
1998	3,228	1.45%	586	0.26%	15	0.01%	59	0.03%	2,568	1.15%
1999	10,996	4.94%	622	0.28%	29	0.01%	217	0.10%	10,128	4.55%
2000	10,321	4.64%	464	0.21%	18	0.01%	160	0.07%	9,679	4.35%
2001	14,201	6.38%	566	0.25%	34	0.02%	294	0.13%	13,307	5.98%
2002	15,326	6.88%	1,216	0.55%	27	0.01%	303	0.14%	13,780	6.19%
2003	18,779	8.43%	1,497	0.67%	57	0.03%	312	0.14%	16,913	7.60%
2004	21,224	9.53%	669	0.30%	63	0.03%	405	0.18%	20,087	9.02%
2005	23,816	10.70%	1,066	0.48%	171	0.08%	453	0.20%	22,126	9.94%
2006	28,478	12.79%	1,042	0.47%	189	0.08%	494	0.22%	26,753	12.02%
2007	16,471	7.40%	195	0.09%	51	0.02%	419	0.19%	15,806	7.10%
2008	16,442	7.38%	168	0.08%	68	0.03%	331	0.15%	15,875	7.13%
2009	6,945	3.12%	2,287	1.03%	36	0.02%	640	0.29%	3,982	1.79%
2010	5,386	2.42%	2,624	1.18%	44	0.02%	648	0.29%	2,070	0.93%
2011	20,153	9.05%	7,839	3.52%	148	0.07%	2,144	0.96%	10,022	4.50%
2012	8,259	3.71%	3,629	1.63%	37	0.02%	1,003	0.45%	3,590	1.61%
2013	2,415	1.08%	905	0.41%	14	0.01%	230	0.10%	1,266	0.57%
2014	221	0.10%	55	0.02%	11	0.00%	22	0.01%	133	0.06%
Total	222,662	100.00%	25,431	11.42%	1,012	0.45%	8,134	3.65%	188,085	84.47%

A-06 EPA Report 51.366 a.2.xii
Vehicles Failing the Initial On-board Diagnostic Check (Non-Diesel)

Year:2013

Vehicle Model Year	All Vehicles		Passenger Cars		Light Duty Trucks		Medium Duty Trucks		Heavy Duty Trucks	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
1996	34,674	5.98%	19,924	3.44%	10,695	1.84%	3,052	0.53%	1,003	0.17%
1997	50,131	8.64%	26,711	4.61%	16,514	2.85%	5,478	0.94%	1,428	0.25%
1998	44,901	7.74%	23,659	4.08%	14,607	2.52%	5,661	0.98%	974	0.17%
1999	56,566	9.75%	29,479	5.08%	15,032	2.59%	10,037	1.73%	2,018	0.35%
2000	51,249	8.84%	28,365	4.89%	13,822	2.38%	7,538	1.30%	1,524	0.26%
2001	96,838	16.70%	48,270	8.32%	26,634	4.59%	18,652	3.22%	3,282	0.57%
2002	48,800	8.41%	26,541	4.58%	12,829	2.21%	7,965	1.37%	1,465	0.25%
2003	70,320	12.13%	34,959	6.03%	18,102	3.12%	14,479	2.50%	2,780	0.48%
2004	28,068	4.84%	15,152	2.61%	6,602	1.14%	5,159	0.89%	1,155	0.20%
2005	47,570	8.20%	26,350	4.54%	12,811	2.21%	6,555	1.13%	1,854	0.32%
2006	15,118	2.61%	8,481	1.46%	3,749	0.65%	2,262	0.39%	626	0.11%
2007	27,931	4.82%	15,305	2.64%	6,322	1.09%	5,314	0.92%	990	0.17%
2008	3,153	0.54%	1,952	0.34%	556	0.10%	540	0.09%	105	0.02%
2009	1,684	0.29%	1,203	0.21%	250	0.04%	188	0.03%	43	0.01%
2010	914	0.16%	636	0.11%	163	0.03%	102	0.02%	13	0.00%
2011	777	0.13%	567	0.10%	111	0.02%	93	0.02%	6	0.00%
2012	747	0.13%	532	0.09%	114	0.02%	75	0.01%	26	0.00%
2013	441	0.08%	243	0.04%	82	0.01%	83	0.01%	33	0.01%
2014	48	0.01%	23	0.00%	7	0.00%	15	0.00%	3	0.00%
Total	579,930	100.00%	308,352	53.17%	159,002	27.42%	93,248	16.08%	19,328	3.33%

A-06 EPA Report 51.366 a.2.xii
Vehicles Failing the Initial On-board Diagnostic Check (Diesel)

Year:2013

Vehicle Model Year	All Vehicles		Passenger Cars		Light Duty Trucks		Medium Duty Trucks		Heavy Duty Trucks	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
1997	1	0.02%	0	0.00%	0	0.00%	0	0.00%	1	0.02%
1998	242	3.89%	59	0.95%	0	0.00%	7	0.11%	176	2.83%
1999	598	9.62%	42	0.68%	2	0.03%	12	0.19%	542	8.72%
2000	486	7.82%	51	0.82%	1	0.02%	8	0.13%	426	6.86%
2001	875	14.08%	79	1.27%	5	0.08%	18	0.29%	773	12.44%
2002	927	14.92%	124	2.00%	1	0.02%	33	0.53%	769	12.38%
2003	1,026	16.51%	153	2.46%	6	0.10%	17	0.27%	850	13.68%
2004	566	9.11%	43	0.69%	3	0.05%	15	0.24%	505	8.13%
2005	532	8.56%	45	0.72%	9	0.14%	13	0.21%	465	7.48%
2006	484	7.79%	20	0.32%	4	0.06%	19	0.31%	441	7.10%
2007	205	3.30%	1	0.02%	0	0.00%	9	0.14%	195	3.14%
2008	125	2.01%	1	0.02%	1	0.02%	1	0.02%	122	1.96%
2009	49	0.79%	32	0.51%	0	0.00%	5	0.08%	12	0.19%
2010	29	0.47%	13	0.21%	1	0.02%	2	0.03%	13	0.21%
2011	58	0.93%	6	0.10%	1	0.02%	13	0.21%	38	0.61%
2012	11	0.18%	0	0.00%	0	0.00%	2	0.03%	9	0.14%
Total	6,214	100.00%	669	10.77%	34	0.55%	174	2.80%	5,337	85.89%

A-06 EPA Report 51.366 a.2.xiii, a.2.xiv
Comparison of On-board Diagnostic Checks and Emissions Tests
ASM Test - Passenger Cars (Non-Diesel)
Year:2013

Vehicle Model Year	All Vehicles (PC+LT+MT+HT) ASM Test		Passenger Cars ASM Test		Pass Emissions Pass OBD Check		Pass Emissions Fail OBD Check		Fail Emissions Pass OBD Check		Fail Emissions Fail OBD Check	
	All	Percent	All	Percent of All Vehicles	Pass/Pass	Percent of Passenger Cars	Pass/Fail	Percent of Passenger Cars	Fail/Pass	Percent of Passenger Cars	Fail/Fail	Percent of Passenger Cars
1996	236,750	3.28%	143,731	1.99%	108,700	2.57%	11,242	0.27%	17,731	0.42%	6,058	0.14%
1997	404,913	5.60%	235,075	3.25%	189,961	4.50%	16,551	0.39%	21,814	0.52%	6,749	0.16%
1998	360,205	4.98%	206,441	2.86%	172,825	4.09%	15,553	0.37%	13,060	0.31%	5,003	0.12%
1999	552,338	7.64%	301,680	4.18%	266,460	6.31%	19,822	0.47%	10,598	0.25%	4,800	0.11%
2000	442,804	6.13%	258,770	3.58%	226,644	5.36%	20,621	0.49%	7,154	0.17%	4,351	0.10%
2001	809,020	11.20%	447,498	6.19%	399,284	9.45%	37,279	0.88%	6,283	0.15%	4,652	0.11%
2002	404,453	5.60%	237,112	3.28%	211,160	5.00%	19,788	0.47%	3,495	0.08%	2,669	0.06%
2003	905,607	12.53%	494,118	6.84%	460,554	10.90%	27,284	0.65%	3,845	0.09%	2,435	0.06%
2004	369,876	5.12%	207,540	2.87%	193,177	4.57%	11,873	0.28%	1,469	0.03%	1,021	0.02%
2005	1,006,114	13.92%	575,769	7.97%	551,114	13.04%	21,325	0.50%	2,155	0.05%	1,175	0.03%
2006	326,470	4.52%	202,640	2.80%	194,716	4.61%	6,704	0.16%	896	0.02%	324	0.01%
2007	1,002,872	13.88%	626,093	8.66%	612,100	14.49%	12,312	0.29%	1,257	0.03%	424	0.01%
2008	144,593	2.00%	96,567	1.34%	94,711	2.24%	1,538	0.04%	281	0.01%	37	0.00%
2009	80,619	1.12%	60,302	0.83%	59,227	1.40%	953	0.02%	112	0.00%	10	0.00%
2010	51,766	0.72%	38,798	0.54%	38,221	0.90%	491	0.01%	82	0.00%	4	0.00%
2011	44,682	0.62%	32,414	0.45%	31,903	0.76%	441	0.01%	65	0.00%	5	0.00%
2012	58,888	0.81%	44,848	0.62%	44,350	1.05%	415	0.01%	77	0.00%	6	0.00%
2013	22,999	0.32%	14,871	0.21%	14,702	0.35%	150	0.00%	19	0.00%	0	0.00%
2014	869	0.01%	480	0.01%	467	0.01%	13	0.00%	0	0.00%	0	0.00%
2015	4	0.00%	4	0.00%	4	0.00%	0	0.00%	0	0.00%	0	0.00%
Total	7,225,842	100.00%	4,224,751	58.47%	3,870,280	91.61%	224,355	5.31%	90,393	2.14%	39,723	0.94%

A-06 EPA Report 51.366 a.2.xiii, a.2.xiv
Comparison of On-board Diagnostic Checks and Emissions Tests
ASM Test - Light Duty Trucks (Non-Diesel)
Year:2013

Vehicle Model Year	All Vehicles (PC+LT+MT+HT) ASM Test		Light Duty Trucks ASM Test		Pass Emissions Pass OBD Check		Pass Emissions Fail OBD Check		Fail Emissions Pass OBD Check		Fail Emissions Fail OBD Check	
	All	Percent	All	Percent of All Vehicles	Pass/Pass	Percent of Light Duty Trucks	Pass/Fail	Percent of Light Duty Trucks	Fail/Pass	Percent of Light Duty Trucks	Fail/Fail	Percent of Light Duty Trucks
1996	236,750	3.28%	65,786	0.91%	50,438	2.85%	6,507	0.37%	6,201	0.35%	2,640	0.15%
1997	404,913	5.60%	119,681	1.66%	96,536	5.46%	10,207	0.58%	9,287	0.53%	3,651	0.21%
1998	360,205	4.98%	109,894	1.52%	89,792	5.08%	9,299	0.53%	7,859	0.44%	2,944	0.17%
1999	552,338	7.64%	153,228	2.12%	134,147	7.59%	10,298	0.58%	6,644	0.38%	2,139	0.12%
2000	442,804	6.13%	122,104	1.69%	106,010	6.00%	9,991	0.57%	4,363	0.25%	1,740	0.10%
2001	809,020	11.20%	214,308	2.97%	189,857	10.74%	19,843	1.12%	2,401	0.14%	2,207	0.12%
2002	404,453	5.60%	100,498	1.39%	89,595	5.07%	8,871	0.50%	1,060	0.06%	972	0.06%
2003	905,607	12.53%	217,677	3.01%	202,258	11.45%	12,927	0.73%	1,260	0.07%	1,232	0.07%
2004	369,876	5.12%	83,466	1.16%	78,018	4.41%	4,492	0.25%	567	0.03%	389	0.02%
2005	1,006,114	13.92%	242,886	3.36%	232,177	13.14%	9,664	0.55%	713	0.04%	332	0.02%
2006	326,470	4.52%	67,645	0.94%	64,582	3.65%	2,745	0.16%	240	0.01%	78	0.00%
2007	1,002,872	13.88%	207,563	2.87%	202,278	11.45%	4,720	0.27%	429	0.02%	136	0.01%
2008	144,593	2.00%	25,583	0.35%	25,147	1.42%	378	0.02%	51	0.00%	7	0.00%
2009	80,619	1.12%	11,585	0.16%	11,381	0.64%	178	0.01%	24	0.00%	2	0.00%
2010	51,766	0.72%	7,672	0.11%	7,568	0.43%	89	0.01%	13	0.00%	2	0.00%
2011	44,682	0.62%	7,359	0.10%	7,286	0.41%	62	0.00%	11	0.00%	0	0.00%
2012	58,888	0.81%	6,552	0.09%	6,470	0.37%	74	0.00%	8	0.00%	0	0.00%
2013	22,999	0.32%	3,576	0.05%	3,516	0.20%	53	0.00%	7	0.00%	0	0.00%
2014	869	0.01%	151	0.00%	148	0.01%	3	0.00%	0	0.00%	0	0.00%
2015	4	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Total	7,225,842	100.00%	1,767,214	24.46%	1,597,204	90.38%	110,401	6.25%	41,138	2.33%	18,471	1.05%

A-06 EPA Report 51.366 a.2.xiii, a.2.xiv
Comparison of On-board Diagnostic Checks and Emissions Tests
ASM Test - Medium Duty Trucks (Non-Diesel)
Year:2013

Vehicle Model Year	All Vehicles (PC+LT+MT+HT) ASM Test		Medium Duty Trucks ASM Test		Pass Emissions Pass OBD Check		Pass Emissions Fail OBD Check		Fail Emissions Pass OBD Check		Fail Emissions Fail OBD Check	
	All	Percent	All	Percent of All Vehicles	Pass/Pass	Percent of Medium Duty Trucks	Pass/Fail	Percent of Medium Duty Trucks	Fail/Pass	Percent of Medium Duty Trucks	Fail/Fail	Percent of Medium Duty Trucks
1996	236,750	3.28%	22,012	0.30%	18,765	1.75%	2,148	0.20%	754	0.07%	345	0.03%
1997	404,913	5.60%	41,710	0.58%	36,308	3.39%	3,951	0.37%	821	0.08%	630	0.06%
1998	360,205	4.98%	38,420	0.53%	33,230	3.10%	4,085	0.38%	553	0.05%	552	0.05%
1999	552,338	7.64%	83,121	1.15%	74,377	6.94%	7,256	0.68%	773	0.07%	715	0.07%
2000	442,804	6.13%	50,903	0.70%	45,434	4.24%	4,807	0.45%	328	0.03%	334	0.03%
2001	809,020	11.20%	125,302	1.73%	112,028	10.46%	12,582	1.17%	299	0.03%	393	0.04%
2002	404,453	5.60%	57,677	0.80%	51,928	4.85%	5,329	0.50%	189	0.02%	231	0.02%
2003	905,607	12.53%	168,809	2.34%	157,810	14.73%	10,321	0.96%	279	0.03%	399	0.04%
2004	369,876	5.12%	69,645	0.96%	65,827	6.14%	3,539	0.33%	130	0.01%	149	0.01%
2005	1,006,114	13.92%	167,632	2.32%	162,611	15.18%	4,675	0.44%	202	0.02%	144	0.01%
2006	326,470	4.52%	48,164	0.67%	46,524	4.34%	1,487	0.14%	102	0.01%	51	0.00%
2007	1,002,872	13.88%	151,764	2.10%	147,842	13.80%	3,812	0.36%	59	0.01%	51	0.00%
2008	144,593	2.00%	19,519	0.27%	19,150	1.79%	350	0.03%	18	0.00%	1	0.00%
2009	80,619	1.12%	7,359	0.10%	7,246	0.68%	112	0.01%	1	0.00%	0	0.00%
2010	51,766	0.72%	4,861	0.07%	4,805	0.45%	55	0.01%	1	0.00%	0	0.00%
2011	44,682	0.62%	4,443	0.06%	4,393	0.41%	49	0.00%	1	0.00%	0	0.00%
2012	58,888	0.81%	6,102	0.08%	6,048	0.56%	54	0.01%	0	0.00%	0	0.00%
2013	22,999	0.32%	3,848	0.05%	3,801	0.35%	47	0.00%	0	0.00%	0	0.00%
2014	869	0.01%	204	0.00%	198	0.02%	6	0.00%	0	0.00%	0	0.00%
2015	4	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Total	7,225,842	100.00%	1,071,495	14.83%	998,325	93.17%	64,665	6.04%	4,510	0.42%	3,995	0.37%

A-06 EPA Report 51.366 a.2.xiii, a.2.xiv
Comparison of On-board Diagnostic Checks and Emissions Tests
ASM Test - Heavy Duty Trucks (Non-Diesel)
Year:2013

Vehicle Model Year	All Vehicles (PC+LT+MT+HT) ASM Test		Heavy Duty Trucks ASM Test		Pass Emissions Pass OBD Check		Pass Emissions Fail OBD Check		Fail Emissions Pass OBD Check		Fail Emissions Fail OBD Check	
	All	Percent	All	Percent of All Vehicles	Pass/Pass	Percent of Heavy Duty Trucks	Pass/Fail	Percent of Heavy Duty Trucks	Fail/Pass	Percent of Heavy Duty Trucks	Fail/Fail	Percent of Heavy Duty Trucks
1996	236,750	3.28%	5,221	0.07%	4,464	2.75%	579	0.36%	120	0.07%	58	0.04%
1997	404,913	5.60%	8,447	0.12%	7,463	4.60%	792	0.49%	129	0.08%	63	0.04%
1998	360,205	4.98%	5,450	0.08%	4,790	2.95%	520	0.32%	87	0.05%	53	0.03%
1999	552,338	7.64%	14,309	0.20%	12,969	7.99%	1,124	0.69%	126	0.08%	90	0.06%
2000	442,804	6.13%	11,027	0.15%	10,004	6.16%	876	0.54%	94	0.06%	53	0.03%
2001	809,020	11.20%	21,912	0.30%	19,834	12.21%	1,967	1.21%	53	0.03%	58	0.04%
2002	404,453	5.60%	9,166	0.13%	8,252	5.08%	859	0.53%	32	0.02%	23	0.01%
2003	905,607	12.53%	25,003	0.35%	23,210	14.29%	1,689	1.04%	55	0.03%	49	0.03%
2004	369,876	5.12%	9,225	0.13%	8,564	5.27%	625	0.38%	22	0.01%	14	0.01%
2005	1,006,114	13.92%	19,827	0.27%	18,833	11.60%	945	0.58%	30	0.02%	19	0.01%
2006	326,470	4.52%	8,021	0.11%	7,620	4.69%	364	0.22%	21	0.01%	16	0.01%
2007	1,002,872	13.88%	17,452	0.24%	16,890	10.40%	544	0.34%	12	0.01%	6	0.00%
2008	144,593	2.00%	2,924	0.04%	2,854	1.76%	66	0.04%	3	0.00%	1	0.00%
2009	80,619	1.12%	1,373	0.02%	1,350	0.83%	23	0.01%	0	0.00%	0	0.00%
2010	51,766	0.72%	435	0.01%	425	0.26%	8	0.00%	2	0.00%	0	0.00%
2011	44,682	0.62%	466	0.01%	462	0.28%	3	0.00%	1	0.00%	0	0.00%
2012	58,888	0.81%	1,386	0.02%	1,372	0.84%	14	0.01%	0	0.00%	0	0.00%
2013	22,999	0.32%	704	0.01%	689	0.42%	15	0.01%	0	0.00%	0	0.00%
2014	869	0.01%	34	0.00%	31	0.02%	3	0.00%	0	0.00%	0	0.00%
2015	4	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Total	7,225,842	100.00%	162,382	2.25%	150,076	92.42%	11,016	6.78%	787	0.48%	503	0.31%

A-06 EPA Report 51.366 a.2.xiii, a.2.xiv
Comparison of On-board Diagnostic Checks and Emissions Tests
TSI Test - Passenger Cars (Non-Diesel)
Year:2013

Vehicle Model Year	All Vehicles (PC+LT+MT+HT) TSI Test		Passenger Cars TSI Test		Pass Emissions Pass OBD Check		Pass Emissions Fail OBD Check		Fail Emissions Pass OBD Check		Fail Emissions Fail OBD Check	
	All	Percent	All	Percent of All Vehicles	Pass/Pass	Percent of Passenger Cars	Pass/Fail	Percent of Passenger Cars	Fail/Pass	Percent of Passenger Cars	Fail/Fail	Percent of Passenger Cars
1996	49,959	2.30%	22,529	1.04%	19,312	2.18%	2,381	0.27%	593	0.07%	243	0.03%
1997	94,271	4.34%	41,600	1.91%	37,392	4.22%	3,067	0.35%	797	0.09%	344	0.04%
1998	83,589	3.84%	38,740	1.78%	34,992	3.95%	2,846	0.32%	645	0.07%	257	0.03%
1999	154,639	7.11%	66,918	3.08%	61,426	6.93%	4,465	0.50%	635	0.07%	392	0.04%
2000	113,200	5.21%	45,559	2.10%	41,727	4.71%	3,169	0.36%	439	0.05%	224	0.03%
2001	223,937	10.30%	82,533	3.80%	75,827	8.56%	6,122	0.69%	367	0.04%	217	0.02%
2002	126,264	5.81%	49,849	2.29%	45,536	5.14%	3,928	0.44%	229	0.03%	156	0.02%
2003	284,483	13.08%	104,596	4.81%	99,089	11.19%	5,066	0.57%	267	0.03%	174	0.02%
2004	119,370	5.49%	42,351	1.95%	39,991	4.51%	2,198	0.25%	102	0.01%	60	0.01%
2005	303,804	13.97%	112,441	5.17%	108,398	12.24%	3,767	0.43%	193	0.02%	83	0.01%
2006	108,040	4.97%	45,780	2.11%	44,065	4.97%	1,410	0.16%	262	0.03%	43	0.00%
2007	345,745	15.90%	147,321	6.78%	144,544	16.32%	2,532	0.29%	208	0.02%	37	0.00%
2008	57,138	2.63%	27,378	1.26%	26,945	3.04%	366	0.04%	56	0.01%	11	0.00%
2009	30,226	1.39%	17,989	0.83%	17,714	2.00%	237	0.03%	35	0.00%	3	0.00%
2010	20,507	0.94%	11,030	0.51%	10,876	1.23%	139	0.02%	13	0.00%	2	0.00%
2011	20,215	0.93%	10,157	0.47%	10,024	1.13%	121	0.01%	12	0.00%	0	0.00%
2012	21,444	0.99%	11,394	0.52%	11,276	1.27%	110	0.01%	8	0.00%	0	0.00%
2013	15,501	0.71%	6,998	0.32%	6,902	0.78%	93	0.01%	3	0.00%	0	0.00%
2014	1,856	0.09%	657	0.03%	646	0.07%	10	0.00%	1	0.00%	0	0.00%
2015	3	0.00%	2	0.00%	2	0.00%	0	0.00%	0	0.00%	0	0.00%
Total	2,174,191	100.00%	885,822	40.74%	836,684	94.45%	42,027	4.74%	4,865	0.55%	2,246	0.25%

A-06 EPA Report 51.366 a.2.xiii, a.2.xiv
Comparison of On-board Diagnostic Checks and Emissions Tests
TSI Test - Light Duty Trucks (Non-Diesel)
Year:2013

Vehicle Model Year	All Vehicles (PC+LT+MT+HT) TSI Test		Light Duty Trucks TSI Test		Pass Emissions Pass OBD Check		Pass Emissions Fail OBD Check		Fail Emissions Pass OBD Check		Fail Emissions Fail OBD Check	
	All	Percent	All	Percent of All Vehicles	Pass/Pass	Percent of Light Duty Trucks	Pass/Fail	Percent of Light Duty Trucks	Fail/Pass	Percent of Light Duty Trucks	Fail/Fail	Percent of Light Duty Trucks
1996	49,959	2.30%	15,304	0.70%	13,479	2.05%	1,376	0.21%	277	0.04%	172	0.03%
1997	94,271	4.34%	32,447	1.49%	29,348	4.46%	2,439	0.37%	443	0.07%	217	0.03%
1998	83,589	3.84%	27,778	1.28%	25,104	3.82%	2,175	0.33%	310	0.05%	189	0.03%
1999	154,639	7.11%	44,051	2.03%	41,121	6.25%	2,408	0.37%	335	0.05%	187	0.03%
2000	113,200	5.21%	30,174	1.39%	27,913	4.24%	1,961	0.30%	170	0.03%	130	0.02%
2001	223,937	10.30%	63,674	2.93%	58,949	8.96%	4,421	0.67%	141	0.02%	163	0.02%
2002	126,264	5.81%	38,714	1.78%	35,649	5.42%	2,892	0.44%	79	0.01%	94	0.01%
2003	284,483	13.08%	90,955	4.18%	86,915	13.21%	3,802	0.58%	97	0.01%	141	0.02%
2004	119,370	5.49%	39,036	1.80%	37,276	5.67%	1,674	0.25%	39	0.01%	47	0.01%
2005	303,804	13.97%	107,616	4.95%	104,751	15.93%	2,791	0.42%	50	0.01%	24	0.00%
2006	108,040	4.97%	27,462	1.26%	26,529	4.03%	921	0.14%	7	0.00%	5	0.00%
2007	345,745	15.90%	99,938	4.60%	98,436	14.97%	1,458	0.22%	36	0.01%	8	0.00%
2008	57,138	2.63%	14,077	0.65%	13,902	2.11%	169	0.03%	4	0.00%	2	0.00%
2009	30,226	1.39%	5,970	0.27%	5,899	0.90%	70	0.01%	1	0.00%	0	0.00%
2010	20,507	0.94%	5,364	0.25%	5,292	0.80%	72	0.01%	0	0.00%	0	0.00%
2011	20,215	0.93%	5,346	0.25%	5,297	0.81%	49	0.01%	0	0.00%	0	0.00%
2012	21,444	0.99%	5,353	0.25%	5,313	0.81%	40	0.01%	0	0.00%	0	0.00%
2013	15,501	0.71%	4,101	0.19%	4,072	0.62%	29	0.00%	0	0.00%	0	0.00%
2014	1,856	0.09%	410	0.02%	406	0.06%	4	0.00%	0	0.00%	0	0.00%
2015	3	0.00%	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
Total	2,174,191	100.00%	657,771	30.25%	625,652	95.12%	28,751	4.37%	1,989	0.30%	1,379	0.21%

A-06 EPA Report 51.366 a.2.xiii, a.2.xiv
Comparison of On-board Diagnostic Checks and Emissions Tests
TSI Test - Medium Duty Trucks (Non-Diesel)
Year:2013

Vehicle Model Year	All Vehicles (PC+LT+MT+HT) TSI Test		Medium Duty Trucks TSI Test		Pass Emissions Pass OBD Check		Pass Emissions Fail OBD Check		Fail Emissions Pass OBD Check		Fail Emissions Fail OBD Check	
	All	Percent	All	Percent of All Vehicles	Pass/Pass	Percent of Medium Duty Trucks	Pass/Fail	Percent of Medium Duty Trucks	Fail/Pass	Percent of Medium Duty Trucks	Fail/Fail	Percent of Medium Duty Trucks
1996	49,959	2.30%	6,224	0.29%	5,525	1.13%	476	0.10%	140	0.03%	83	0.02%
1997	94,271	4.34%	10,673	0.49%	9,622	1.97%	798	0.16%	154	0.03%	99	0.02%
1998	83,589	3.84%	11,128	0.51%	9,984	2.05%	902	0.18%	120	0.02%	122	0.03%
1999	154,639	7.11%	29,904	1.38%	27,673	5.67%	1,940	0.40%	165	0.03%	126	0.03%
2000	113,200	5.21%	27,755	1.28%	25,257	5.18%	2,296	0.47%	101	0.02%	101	0.02%
2001	223,937	10.30%	62,093	2.86%	56,355	11.55%	5,583	1.14%	61	0.01%	94	0.02%
2002	126,264	5.81%	30,044	1.38%	27,597	5.66%	2,356	0.48%	42	0.01%	49	0.01%
2003	284,483	13.08%	69,620	3.20%	65,791	13.48%	3,665	0.75%	70	0.01%	94	0.02%
2004	119,370	5.49%	29,834	1.37%	28,329	5.81%	1,442	0.30%	34	0.01%	29	0.01%
2005	303,804	13.97%	64,943	2.99%	63,163	12.94%	1,716	0.35%	44	0.01%	20	0.00%
2006	108,040	4.97%	27,475	1.26%	26,729	5.48%	718	0.15%	22	0.00%	6	0.00%
2007	345,745	15.90%	84,450	3.88%	82,979	17.00%	1,447	0.30%	20	0.00%	4	0.00%
2008	57,138	2.63%	13,422	0.62%	13,227	2.71%	189	0.04%	6	0.00%	0	0.00%
2009	30,226	1.39%	5,551	0.26%	5,473	1.12%	75	0.02%	2	0.00%	1	0.00%
2010	20,507	0.94%	3,738	0.17%	3,690	0.76%	47	0.01%	1	0.00%	0	0.00%
2011	20,215	0.93%	4,198	0.19%	4,154	0.85%	44	0.01%	0	0.00%	0	0.00%
2012	21,444	0.99%	3,455	0.16%	3,432	0.70%	21	0.00%	2	0.00%	0	0.00%
2013	15,501	0.71%	3,148	0.14%	3,112	0.64%	36	0.01%	0	0.00%	0	0.00%
2014	1,856	0.09%	318	0.01%	309	0.06%	9	0.00%	0	0.00%	0	0.00%
2015	3	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Total	2,174,191	100.00%	487,973	22.44%	462,401	94.76%	23,760	4.87%	984	0.20%	828	0.17%

A-06 EPA Report 51.366 a.2.xiii, a.2.xiv
Comparison of On-board Diagnostic Checks and Emissions Tests
TSI Test - Heavy Duty Trucks (Non-Diesel)
Year:2013

Vehicle Model Year	All Vehicles (PC+LT+MT+HT) TSI Test		Heavy Duty Trucks TSI Test		Pass Emissions Pass OBD Check		Pass Emissions Fail OBD Check		Fail Emissions Pass OBD Check		Fail Emissions Fail OBD Check	
	All	Percent	All	Percent of All Vehicles	Pass/Pass	Percent of Heavy Duty Trucks	Pass/Fail	Percent of Heavy Duty Trucks	Fail/Pass	Percent of Heavy Duty Trucks	Fail/Fail	Percent of Heavy Duty Trucks
1996	49,959	2.30%	5,902	0.27%	5,267	3.69%	304	0.21%	269	0.19%	62	0.04%
1997	94,271	4.34%	9,551	0.44%	8,584	6.02%	509	0.36%	394	0.28%	64	0.04%
1998	83,589	3.84%	5,943	0.27%	5,221	3.66%	327	0.23%	321	0.23%	74	0.05%
1999	154,639	7.11%	13,766	0.63%	12,564	8.81%	712	0.50%	398	0.28%	92	0.06%
2000	113,200	5.21%	9,712	0.45%	8,837	6.20%	533	0.37%	280	0.20%	62	0.04%
2001	223,937	10.30%	15,637	0.72%	14,206	9.96%	1,204	0.84%	174	0.12%	53	0.04%
2002	126,264	5.81%	7,657	0.35%	6,974	4.89%	553	0.39%	100	0.07%	30	0.02%
2003	284,483	13.08%	19,312	0.89%	18,145	12.72%	1,022	0.72%	125	0.09%	20	0.01%
2004	119,370	5.49%	8,149	0.37%	7,563	5.30%	509	0.36%	70	0.05%	7	0.00%
2005	303,804	13.97%	18,804	0.86%	17,786	12.47%	884	0.62%	128	0.09%	6	0.00%
2006	108,040	4.97%	7,323	0.34%	7,027	4.93%	240	0.17%	50	0.04%	6	0.00%
2007	345,745	15.90%	14,036	0.65%	13,554	9.50%	434	0.30%	42	0.03%	6	0.00%
2008	57,138	2.63%	2,261	0.10%	2,212	1.55%	37	0.03%	11	0.01%	1	0.00%
2009	30,226	1.39%	716	0.03%	694	0.49%	19	0.01%	2	0.00%	1	0.00%
2010	20,507	0.94%	375	0.02%	370	0.26%	5	0.00%	0	0.00%	0	0.00%
2011	20,215	0.93%	514	0.02%	510	0.36%	3	0.00%	1	0.00%	0	0.00%
2012	21,444	0.99%	1,242	0.06%	1,229	0.86%	12	0.01%	1	0.00%	0	0.00%
2013	15,501	0.71%	1,254	0.06%	1,236	0.87%	18	0.01%	0	0.00%	0	0.00%
2014	1,856	0.09%	471	0.02%	471	0.33%	0	0.00%	0	0.00%	0	0.00%
2015	3	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Total	2,174,191	100.00%	142,625	6.56%	132,450	92.87%	7,325	5.14%	2,366	1.66%	484	0.34%

A-06 EPA Report 51.366 a.2.xv, a.2.xvi, a.2.xvii, a.2.xviii
Comparison of On-board Diagnostic Checks and Gas Cap Evaporative Tests
Passenger Cars (Non-Diesel)
Year:2013

Vehicle Model Year	All Vehicles All Test Types		Passenger Cars All Test Types		Pass Fuel Cap Pass OBD		Pass Fuel Cap Fail OBD		Fail Fuel Cap Pass OBD		Fail Fuel Cap Fail OBD	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of Passenger Cars						
1996	283,720	11.80%	164,368	6.83%	143,447	10.96%	18,154	1.39%	1,316	0.10%	1,451	0.11%
1997	492,137	20.46%	272,563	11.33%	244,374	18.67%	24,248	1.85%	1,914	0.15%	2,027	0.15%
1998	436,086	18.13%	240,208	9.99%	215,378	16.45%	21,233	1.62%	1,658	0.13%	1,939	0.15%
1999	691,210	28.74%	359,829	14.96%	329,151	25.14%	26,750	2.04%	1,856	0.14%	2,072	0.16%
2000	105,312	4.38%	56,996	2.37%	50,561	3.86%	4,989	0.38%	612	0.05%	834	0.06%
2001	83,798	3.48%	42,866	1.78%	37,225	2.84%	3,787	0.29%	809	0.06%	1,045	0.08%
2002	36,620	1.52%	19,438	0.81%	16,710	1.28%	1,659	0.13%	460	0.04%	609	0.05%
2003	65,412	2.72%	31,926	1.33%	28,712	2.19%	1,788	0.14%	765	0.06%	661	0.05%
2004	26,495	1.10%	13,387	0.56%	12,171	0.93%	750	0.06%	216	0.02%	250	0.02%
2005	63,598	2.64%	33,867	1.41%	31,877	2.43%	1,309	0.10%	383	0.03%	298	0.02%
2006	22,771	0.95%	12,823	0.53%	12,188	0.93%	437	0.03%	117	0.01%	81	0.01%
2007	63,481	2.64%	37,339	1.55%	36,117	2.76%	840	0.06%	240	0.02%	142	0.01%
2008	11,559	0.48%	7,179	0.30%	6,974	0.53%	161	0.01%	31	0.00%	13	0.00%
2009	6,995	0.29%	5,074	0.21%	4,930	0.38%	123	0.01%	19	0.00%	2	0.00%
2010	4,480	0.19%	3,252	0.14%	3,171	0.24%	62	0.00%	18	0.00%	1	0.00%
2011	4,261	0.18%	2,994	0.12%	2,920	0.22%	62	0.00%	11	0.00%	1	0.00%
2012	4,766	0.20%	3,444	0.14%	3,376	0.26%	52	0.00%	13	0.00%	3	0.00%
2013	2,414	0.10%	1,544	0.06%	1,512	0.12%	24	0.00%	4	0.00%	4	0.00%
2014	155	0.01%	91	0.00%	89	0.01%	2	0.00%	0	0.00%	0	0.00%
Total	2,405,270	100.00%	1,309,188	54.43%	1,180,883	90.20%	106,430	8.13%	10,442	0.80%	11,433	0.87%

A-06 EPA Report 51.366 a.2.xv, a.2.xvi, a.2.xvii, a.2.xviii
Comparison of On-board Diagnostic Checks and Gas Cap Evaporative Tests
Light Duty Trucks (Non-Diesel)
Year:2013

Vehicle Model Year	All Vehicles All Test Types		Light Duty Trucks All Test Types		Pass Fuel Cap Pass OBD		Pass Fuel Cap Fail OBD		Fail Fuel Cap Pass OBD		Fail Fuel Cap Fail OBD	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of Light Duty Trucks						
1996	283,720	11.80%	80,473	3.35%	69,100	10.06%	9,475	1.38%	792	0.12%	1,106	0.16%
1997	492,137	20.46%	150,511	6.26%	132,866	19.35%	14,468	2.11%	1,347	0.20%	1,830	0.27%
1998	436,086	18.13%	136,148	5.66%	120,619	17.56%	12,952	1.89%	1,144	0.17%	1,433	0.21%
1999	691,210	28.74%	193,916	8.06%	177,840	25.90%	13,419	1.95%	1,291	0.19%	1,366	0.20%
2000	105,312	4.38%	29,692	1.23%	26,271	3.83%	2,416	0.35%	452	0.07%	553	0.08%
2001	83,798	3.48%	22,770	0.95%	19,670	2.86%	2,067	0.30%	432	0.06%	601	0.09%
2002	36,620	1.52%	9,580	0.40%	8,271	1.20%	816	0.12%	193	0.03%	300	0.04%
2003	65,412	2.72%	17,204	0.72%	15,388	2.24%	969	0.14%	361	0.05%	486	0.07%
2004	26,495	1.10%	6,555	0.27%	6,013	0.88%	315	0.05%	117	0.02%	110	0.02%
2005	63,598	2.64%	16,323	0.68%	15,348	2.23%	583	0.08%	192	0.03%	200	0.03%
2006	22,771	0.95%	4,803	0.20%	4,512	0.66%	192	0.03%	48	0.01%	51	0.01%
2007	63,481	2.64%	13,004	0.54%	12,560	1.83%	299	0.04%	85	0.01%	60	0.01%
2008	11,559	0.48%	2,241	0.09%	2,181	0.32%	37	0.01%	16	0.00%	7	0.00%
2009	6,995	0.29%	1,042	0.04%	1,019	0.15%	20	0.00%	3	0.00%	0	0.00%
2010	4,480	0.19%	729	0.03%	711	0.10%	12	0.00%	5	0.00%	1	0.00%
2011	4,261	0.18%	713	0.03%	701	0.10%	9	0.00%	3	0.00%	0	0.00%
2012	4,766	0.20%	683	0.03%	663	0.10%	15	0.00%	3	0.00%	2	0.00%
2013	2,414	0.10%	351	0.01%	347	0.05%	4	0.00%	0	0.00%	0	0.00%
2014	155	0.01%	25	0.00%	25	0.00%	0	0.00%	0	0.00%	0	0.00%
Total	2,405,270	100.00%	686,763	28.55%	614,105	89.42%	58,068	8.46%	6,484	0.94%	8,106	1.18%

A-06 EPA Report 51.366 a.2.xv, a.2.xvi, a.2.xvii, a.2.xviii
Comparison of On-board Diagnostic Checks and Gas Cap Evaporative Tests
Medium Duty Trucks (Non-Diesel)
Year:2013

Vehicle Model Year	All Vehicles All Test Types		Medium Duty Trucks All Test Types		Pass Fuel Cap Pass OBD		Pass Fuel Cap Fail OBD		Fail Fuel Cap Pass OBD		Fail Fuel Cap Fail OBD	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of Medium Duty Trucks						
1996	283,720	11.80%	28,033	1.17%	24,821	7.67%	2,749	0.85%	187	0.06%	276	0.09%
1997	492,137	20.46%	51,773	2.15%	46,122	14.25%	4,883	1.51%	257	0.08%	511	0.16%
1998	436,086	18.13%	48,868	2.03%	43,071	13.31%	5,171	1.60%	225	0.07%	401	0.12%
1999	691,210	28.74%	110,764	4.61%	100,465	31.05%	9,160	2.83%	445	0.14%	694	0.21%
2000	105,312	4.38%	14,289	0.59%	12,706	3.93%	1,229	0.38%	150	0.05%	204	0.06%
2001	83,798	3.48%	14,620	0.61%	12,729	3.93%	1,411	0.44%	200	0.06%	280	0.09%
2002	36,620	1.52%	6,049	0.25%	5,255	1.62%	559	0.17%	94	0.03%	141	0.04%
2003	65,412	2.72%	13,235	0.55%	12,006	3.71%	808	0.25%	200	0.06%	221	0.07%
2004	26,495	1.10%	5,271	0.22%	4,823	1.49%	247	0.08%	115	0.04%	86	0.03%
2005	63,598	2.64%	10,950	0.46%	10,430	3.22%	310	0.10%	124	0.04%	86	0.03%
2006	22,771	0.95%	3,937	0.16%	3,738	1.16%	142	0.04%	33	0.01%	24	0.01%
2007	63,481	2.64%	11,188	0.47%	10,771	3.33%	296	0.09%	73	0.02%	48	0.01%
2008	11,559	0.48%	1,882	0.08%	1,830	0.57%	40	0.01%	9	0.00%	3	0.00%
2009	6,995	0.29%	773	0.03%	758	0.23%	8	0.00%	5	0.00%	2	0.00%
2010	4,480	0.19%	459	0.02%	450	0.14%	8	0.00%	0	0.00%	1	0.00%
2011	4,261	0.18%	512	0.02%	508	0.16%	4	0.00%	0	0.00%	0	0.00%
2012	4,766	0.20%	492	0.02%	489	0.15%	2	0.00%	1	0.00%	0	0.00%
2013	2,414	0.10%	439	0.02%	432	0.13%	6	0.00%	1	0.00%	0	0.00%
2014	155	0.01%	16	0.00%	15	0.00%	1	0.00%	0	0.00%	0	0.00%
Total	2,405,270	100.00%	323,550	13.45%	291,419	90.07%	27,034	8.36%	2,119	0.65%	2,978	0.92%

A-06 EPA Report 51.366 a.2.xv, a.2.xvi, a.2.xvii, a.2.xviii
Comparison of On-board Diagnostic Checks and Gas Cap Evaporative Tests
Heavy Duty Trucks (Non-Diesel)
Year:2013

Vehicle Model Year	All Vehicles All Test Types		Heavy Duty Trucks All Test Types		Pass Fuel Cap Pass OBD		Pass Fuel Cap Fail OBD		Fail Fuel Cap Pass OBD		Fail Fuel Cap Fail OBD	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of Heavy Duty Trucks						
1996	283,720	11.80%	10,846	0.45%	9,785	11.41%	881	1.03%	72	0.08%	108	0.13%
1997	492,137	20.46%	17,290	0.72%	15,792	18.41%	1,258	1.47%	108	0.13%	132	0.15%
1998	436,086	18.13%	10,862	0.45%	9,876	11.51%	832	0.97%	56	0.07%	98	0.11%
1999	691,210	28.74%	26,701	1.11%	24,610	28.69%	1,760	2.05%	145	0.17%	186	0.22%
2000	105,312	4.38%	4,335	0.18%	3,928	4.58%	288	0.34%	55	0.06%	64	0.07%
2001	83,798	3.48%	3,542	0.15%	3,115	3.63%	284	0.33%	68	0.08%	75	0.09%
2002	36,620	1.52%	1,553	0.06%	1,386	1.62%	116	0.14%	19	0.02%	32	0.04%
2003	65,412	2.72%	3,047	0.13%	2,763	3.22%	183	0.21%	46	0.05%	55	0.06%
2004	26,495	1.10%	1,282	0.05%	1,177	1.37%	65	0.08%	18	0.02%	22	0.03%
2005	63,598	2.64%	2,458	0.10%	2,282	2.66%	114	0.13%	29	0.03%	33	0.04%
2006	22,771	0.95%	1,208	0.05%	1,132	1.32%	59	0.07%	13	0.02%	4	0.00%
2007	63,481	2.64%	1,950	0.08%	1,839	2.14%	72	0.08%	18	0.02%	21	0.02%
2008	11,559	0.48%	257	0.01%	248	0.29%	6	0.01%	1	0.00%	2	0.00%
2009	6,995	0.29%	106	0.00%	102	0.12%	3	0.00%	1	0.00%	0	0.00%
2010	4,480	0.19%	40	0.00%	38	0.04%	1	0.00%	0	0.00%	1	0.00%
2011	4,261	0.18%	42	0.00%	40	0.05%	2	0.00%	0	0.00%	0	0.00%
2012	4,766	0.20%	147	0.01%	144	0.17%	2	0.00%	1	0.00%	0	0.00%
2013	2,414	0.10%	80	0.00%	76	0.09%	3	0.00%	1	0.00%	0	0.00%
2014	155	0.01%	23	0.00%	23	0.03%	0	0.00%	0	0.00%	0	0.00%
Total	2,405,270	100.00%	85,769	3.57%	78,356	91.36%	5,929	6.91%	651	0.76%	833	0.97%

A-06 EPA Report 51.366 a.2.xix, a.2.xx, a.2.xxi, a.2.xxii
Comparison of MIL Command Status and Stored DTCs
Passenger Cars (Non-Diesel)
Year:2013

Vehicle Model Year	All Vehicles All Test Types		Passenger Cars All Test Types		MIL Commanded On No DTCs Stored		MIL Commanded On DTCs Stored		MIL Commanded Off No DTCs Stored		MIL Commanded Off DTCs Stored	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of Passenger Cars	Count	Percent of Passenger Cars	Count	Percent of Passenger Cars	Count	Percent of Passenger Cars
1996	282,431	3.68%	165,226	2.16%	274	0.01%	11,004	0.26%	140,613	3.38%	13,335	0.32%
1997	493,068	6.43%	275,470	3.59%	354	0.01%	13,948	0.34%	238,831	5.75%	22,337	0.54%
1998	438,900	5.73%	244,027	3.18%	355	0.01%	12,503	0.30%	207,799	5.00%	23,370	0.56%
1999	697,809	9.10%	367,083	4.79%	536	0.01%	15,675	0.38%	319,589	7.69%	31,283	0.75%
2000	550,314	7.18%	302,954	3.95%	421	0.01%	15,603	0.38%	259,776	6.25%	27,154	0.65%
2001	1,025,450	13.38%	528,325	6.89%	636	0.02%	21,868	0.53%	454,743	10.94%	51,078	1.23%
2002	526,018	6.86%	285,925	3.73%	365	0.01%	11,613	0.28%	244,966	5.89%	28,981	0.70%
2003	1,152,556	15.03%	568,789	7.42%	288	0.01%	15,910	0.38%	510,622	12.28%	41,969	1.01%
2004	438,167	5.72%	226,341	2.95%	94	0.00%	5,869	0.14%	203,326	4.89%	17,052	0.41%
2005	992,993	12.95%	560,796	7.32%	76	0.00%	10,697	0.26%	518,995	12.48%	31,028	0.75%
2006	259,432	3.38%	147,611	1.93%	22	0.00%	2,565	0.06%	136,206	3.28%	8,818	0.21%
2007	578,808	7.55%	329,549	4.30%	35	0.00%	4,603	0.11%	308,574	7.42%	16,337	0.39%
2008	88,438	1.15%	55,814	0.73%	3	0.00%	338	0.01%	53,530	1.29%	1,943	0.05%
2009	44,925	0.59%	32,414	0.42%	4	0.00%	133	0.00%	31,405	0.76%	872	0.02%
2010	28,511	0.37%	20,145	0.26%	3	0.00%	66	0.00%	19,693	0.47%	383	0.01%
2011	25,293	0.33%	17,204	0.22%	1	0.00%	52	0.00%	16,897	0.41%	254	0.01%
2012	28,604	0.37%	20,583	0.27%	0	0.00%	25	0.00%	20,263	0.49%	295	0.01%
2013	13,752	0.18%	8,407	0.11%	0	0.00%	12	0.00%	8,295	0.20%	100	0.00%
2014	787	0.01%	420	0.01%	0	0.00%	1	0.00%	416	0.01%	3	0.00%
2015	1	0.00%	1	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%
Total	7,666,257	100.00%	4,157,084	54.23%	3,467	0.08%	142,485	3.43%	3,694,540	88.87%	316,592	7.62%

A-06 EPA Report 51.366 a.2.xix, a.2.xx, a.2.xxi, a.2.xxii
Comparison of MIL Command Status and Stored DTCs
Passenger Cars (Diesel)
Year:2013

Vehicle Model Year	All Vehicles All Test Types		Passenger Cars All Test Types		MIL Commanded On No DTCs Stored		MIL Commanded On DTCs Stored		MIL Commanded Off No DTCs Stored		MIL Commanded Off DTCs Stored	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of Passenger Cars	Count	Percent of Passenger Cars	Count	Percent of Passenger Cars	Count	Percent of Passenger Cars
1998	3,261	3.47%	625	0.66%	0	0.00%	46	0.63%	530	7.24%	49	0.67%
1999	10,712	11.39%	650	0.69%	0	0.00%	30	0.41%	585	7.99%	35	0.48%
2000	9,875	10.50%	503	0.53%	0	0.00%	27	0.37%	453	6.19%	23	0.31%
2001	13,932	14.82%	625	0.66%	0	0.00%	47	0.64%	539	7.36%	39	0.53%
2002	14,927	15.87%	1,321	1.40%	0	0.00%	76	1.04%	1,127	15.40%	118	1.61%
2003	13,499	14.36%	1,618	1.72%	2	0.03%	83	1.13%	1,437	19.63%	96	1.31%
2004	11,359	12.08%	663	0.71%	0	0.00%	12	0.16%	593	8.10%	58	0.79%
2005	13,950	14.84%	1,062	1.13%	0	0.00%	26	0.36%	956	13.06%	80	1.09%
2006	2,450	2.61%	251	0.27%	0	0.00%	7	0.10%	232	3.17%	12	0.16%
2007	52	0.06%	1	0.00%	0	0.00%	0	0.00%	1	0.01%	0	0.00%
2008	15	0.02%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
2011	1	0.00%	1	0.00%	0	0.00%	0	0.00%	1	0.01%	0	0.00%
Total	94,033	100.00%	7,320	7.78%	2	0.03%	354	4.84%	6,454	88.17%	510	6.97%

A-06 EPA Report 51.366 a.2.xix, a.2.xx, a.2.xxi, a.2.xxii
Comparison of MIL Command Status and Stored DTCs
Light Duty Trucks (Non-Diesel)
Year:2013

Vehicle Model Year	All Vehicles All Test Types		Light Duty Trucks All Test Types		MIL Commanded On No DTCs Stored		MIL Commanded On DTCs Stored		MIL Commanded Off No DTCs Stored		MIL Commanded Off DTCs Stored	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of Light Duty Trucks	Count	Percent of Light Duty Trucks	Count	Percent of Light Duty Trucks	Count	Percent of Light Duty Trucks
1996	282,431	3.68%	80,679	1.05%	42	0.00%	5,435	0.26%	65,728	3.17%	9,474	0.46%
1997	493,068	6.43%	151,536	1.98%	46	0.00%	8,023	0.39%	126,453	6.11%	17,014	0.82%
1998	438,900	5.73%	137,167	1.79%	42	0.00%	6,836	0.33%	116,455	5.62%	13,834	0.67%
1999	697,809	9.10%	196,689	2.57%	45	0.00%	7,411	0.36%	173,177	8.36%	16,056	0.78%
2000	550,314	7.18%	151,747	1.98%	42	0.00%	6,745	0.33%	127,108	6.14%	17,852	0.86%
2001	1,025,450	13.38%	277,364	3.62%	190	0.01%	12,140	0.59%	245,637	11.86%	19,397	0.94%
2002	526,018	6.86%	138,819	1.81%	104	0.01%	5,594	0.27%	119,581	5.78%	13,540	0.65%
2003	1,152,556	15.03%	307,838	4.02%	155	0.01%	8,636	0.42%	272,644	13.17%	26,403	1.28%
2004	438,167	5.72%	114,390	1.49%	23	0.00%	2,701	0.13%	100,593	4.86%	11,073	0.53%
2005	992,993	12.95%	263,405	3.44%	44	0.00%	5,241	0.25%	242,795	11.73%	15,325	0.74%
2006	259,432	3.38%	65,408	0.85%	20	0.00%	1,279	0.06%	59,799	2.89%	4,310	0.21%
2007	578,808	7.55%	144,365	1.88%	20	0.00%	2,274	0.11%	134,891	6.51%	7,180	0.35%
2008	88,438	1.15%	17,496	0.23%	1	0.00%	86	0.00%	16,863	0.81%	546	0.03%
2009	44,925	0.59%	6,884	0.09%	1	0.00%	23	0.00%	6,731	0.33%	129	0.01%
2010	28,511	0.37%	5,036	0.07%	0	0.00%	11	0.00%	4,954	0.24%	71	0.00%
2011	25,293	0.33%	4,712	0.06%	0	0.00%	8	0.00%	4,646	0.22%	58	0.00%
2012	28,604	0.37%	4,211	0.05%	0	0.00%	6	0.00%	4,154	0.20%	51	0.00%
2013	13,752	0.18%	2,718	0.04%	0	0.00%	4	0.00%	2,692	0.13%	22	0.00%
2014	787	0.01%	176	0.00%	0	0.00%	0	0.00%	176	0.01%	0	0.00%
2015	1	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Total	7,666,257	100.00%	2,070,640	27.01%	775	0.04%	72,453	3.50%	1,825,077	88.14%	172,335	8.32%

A-06 EPA Report 51.366 a.2.xix, a.2.xx, a.2.xxi, a.2.xxii
Comparison of MIL Command Status and Stored DTCs
Light Duty Trucks (Diesel)
Year:2013

Vehicle Model Year	All Vehicles All Test Types		Light Duty Trucks All Test Types		MIL Commanded On No DTCs Stored		MIL Commanded On DTCs Stored		MIL Commanded Off No DTCs Stored		MIL Commanded Off DTCs Stored	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of Light Duty Trucks	Count	Percent of Light Duty Trucks	Count	Percent of Light Duty Trucks	Count	Percent of Light Duty Trucks
1998	3,261	3.47%	12	0.01%	1	0.21%	0	0.00%	9	1.89%	2	0.42%
1999	10,712	11.39%	28	0.03%	0	0.00%	1	0.21%	22	4.63%	5	1.05%
2000	9,875	10.50%	19	0.02%	0	0.00%	1	0.21%	15	3.16%	3	0.63%
2001	13,932	14.82%	36	0.04%	0	0.00%	3	0.63%	30	6.32%	3	0.63%
2002	14,927	15.87%	28	0.03%	0	0.00%	1	0.21%	26	5.47%	1	0.21%
2003	13,499	14.36%	45	0.05%	5	1.05%	2	0.42%	35	7.37%	3	0.63%
2004	11,359	12.08%	41	0.04%	1	0.21%	0	0.00%	33	6.95%	7	1.47%
2005	13,950	14.84%	149	0.16%	0	0.00%	5	1.05%	123	25.89%	21	4.42%
2006	2,450	2.61%	117	0.12%	0	0.00%	4	0.84%	102	21.47%	11	2.32%
2007	52	0.06%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
2008	15	0.02%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
2011	1	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Total	94,033	100.00%	475	0.51%	7	1.47%	17	3.58%	395	83.16%	56	11.79%

A-06 EPA Report 51.366 a.2.xix, a.2.xx, a.2.xxi, a.2.xxii
Comparison of MIL Command Status and Stored DTCs
Medium Duty Trucks (Non-Diesel)
Year:2013

Vehicle Model Year	All Vehicles All Test Types		Medium Duty Trucks All Test Types		MIL Commanded On No DTCs Stored		MIL Commanded On DTCs Stored		MIL Commanded Off No DTCs Stored		MIL Commanded Off DTCs Stored	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of Medium Duty Trucks	Count	Percent of Medium Duty Trucks	Count	Percent of Medium Duty Trucks	Count	Percent of Medium Duty Trucks
1996	282,431	3.68%	28,048	0.37%	15	0.00%	1,672	0.14%	23,301	1.92%	3,060	0.25%
1997	493,068	6.43%	52,188	0.68%	31	0.00%	3,058	0.25%	45,016	3.71%	4,083	0.34%
1998	438,900	5.73%	49,195	0.64%	28	0.00%	2,610	0.22%	42,041	3.47%	4,516	0.37%
1999	697,809	9.10%	112,438	1.47%	87	0.01%	4,488	0.37%	99,934	8.25%	7,929	0.65%
2000	550,314	7.18%	78,357	1.02%	40	0.00%	3,352	0.28%	69,471	5.73%	5,494	0.45%
2001	1,025,450	13.38%	186,929	2.44%	106	0.01%	6,633	0.55%	169,393	13.98%	10,797	0.89%
2002	526,018	6.86%	87,429	1.14%	65	0.01%	2,870	0.24%	78,446	6.47%	6,048	0.50%
2003	1,152,556	15.03%	237,652	3.10%	70	0.01%	6,085	0.50%	217,672	17.96%	13,825	1.14%
2004	438,167	5.72%	83,351	1.09%	28	0.00%	1,576	0.13%	77,358	6.38%	4,389	0.36%
2005	992,993	12.95%	141,308	1.84%	24	0.00%	2,032	0.17%	132,161	10.90%	7,091	0.59%
2006	259,432	3.38%	37,448	0.49%	16	0.00%	654	0.05%	34,341	2.83%	2,437	0.20%
2007	578,808	7.55%	87,827	1.15%	6	0.00%	1,314	0.11%	82,372	6.80%	4,135	0.34%
2008	88,438	1.15%	13,256	0.17%	0	0.00%	77	0.01%	12,587	1.04%	592	0.05%
2009	44,925	0.59%	4,839	0.06%	0	0.00%	11	0.00%	4,653	0.38%	175	0.01%
2010	28,511	0.37%	3,101	0.04%	0	0.00%	3	0.00%	3,035	0.25%	63	0.01%
2011	25,293	0.33%	3,080	0.04%	0	0.00%	3	0.00%	3,014	0.25%	63	0.01%
2012	28,604	0.37%	3,123	0.04%	0	0.00%	2	0.00%	3,084	0.25%	37	0.00%
2013	13,752	0.18%	2,257	0.03%	0	0.00%	0	0.00%	2,244	0.19%	13	0.00%
2014	787	0.01%	152	0.00%	0	0.00%	0	0.00%	147	0.01%	5	0.00%
2015	1	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Total	7,666,257	100.00%	1,211,978	15.81%	516	0.04%	36,440	3.01%	1,100,270	90.78%	74,752	6.17%

A-06 EPA Report 51.366 a.2.xix, a.2.xx, a.2.xxi, a.2.xxii
Comparison of MIL Command Status and Stored DTCs
Medium Duty Trucks (Diesel)
Year:2013

Vehicle Model Year	All Vehicles All Test Types		Medium Duty Trucks All Test Types		MIL Commanded On No DTCs Stored		MIL Commanded On DTCs Stored		MIL Commanded Off No DTCs Stored		MIL Commanded Off DTCs Stored	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of Medium Duty Trucks	Count	Percent of Medium Duty Trucks	Count	Percent of Medium Duty Trucks	Count	Percent of Medium Duty Trucks
1998	3,261	3.47%	61	0.06%	1	0.05%	5	0.25%	44	2.16%	11	0.54%
1999	10,712	11.39%	213	0.23%	1	0.05%	11	0.54%	178	8.73%	23	1.13%
2000	9,875	10.50%	152	0.16%	0	0.00%	7	0.34%	121	5.94%	24	1.18%
2001	13,932	14.82%	287	0.31%	1	0.05%	8	0.39%	251	12.32%	27	1.32%
2002	14,927	15.87%	297	0.32%	0	0.00%	13	0.64%	244	11.97%	40	1.96%
2003	13,499	14.36%	271	0.29%	6	0.29%	6	0.29%	220	10.79%	39	1.91%
2004	11,359	12.08%	312	0.33%	0	0.00%	7	0.34%	259	12.71%	46	2.26%
2005	13,950	14.84%	378	0.40%	0	0.00%	5	0.25%	327	16.05%	46	2.26%
2006	2,450	2.61%	67	0.07%	0	0.00%	2	0.10%	51	2.50%	14	0.69%
2007	52	0.06%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
2008	15	0.02%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
2011	1	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Total	94,033	100.00%	2,038	2.17%	9	0.44%	64	3.14%	1,695	83.17%	270	13.25%

A-06 EPA Report 51.366 a.2.xix, a.2.xx, a.2.xxi, a.2.xxii
Comparison of MIL Command Status and Stored DTCs
Heavy Duty Trucks (Non-Diesel)
Year:2013

Vehicle Model Year	All Vehicles All Test Types		Heavy Duty Trucks All Test Types		MIL Commanded On No DTCs Stored		MIL Commanded On DTCs Stored		MIL Commanded Off No DTCs Stored		MIL Commanded Off DTCs Stored	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of Heavy Duty Trucks	Count	Percent of Heavy Duty Trucks	Count	Percent of Heavy Duty Trucks	Count	Percent of Heavy Duty Trucks
1996	282,431	3.68%	8,478	0.11%	3	0.00%	492	0.22%	7,237	3.19%	746	0.33%
1997	493,068	6.43%	13,874	0.18%	5	0.00%	649	0.29%	12,210	5.39%	1,010	0.45%
1998	438,900	5.73%	8,511	0.11%	4	0.00%	400	0.18%	7,278	3.21%	829	0.37%
1999	697,809	9.10%	21,599	0.28%	7	0.00%	835	0.37%	19,097	8.43%	1,660	0.73%
2000	550,314	7.18%	17,256	0.23%	3	0.00%	648	0.29%	15,248	6.73%	1,357	0.60%
2001	1,025,450	13.38%	32,832	0.43%	12	0.01%	936	0.41%	29,758	13.14%	2,126	0.94%
2002	526,018	6.86%	13,845	0.18%	3	0.00%	390	0.17%	12,310	5.43%	1,142	0.50%
2003	1,152,556	15.03%	38,277	0.50%	2	0.00%	886	0.39%	34,487	15.22%	2,902	1.28%
2004	438,167	5.72%	14,085	0.18%	3	0.00%	262	0.12%	12,915	5.70%	905	0.40%
2005	992,993	12.95%	27,484	0.36%	5	0.00%	575	0.25%	25,154	11.10%	1,750	0.77%
2006	259,432	3.38%	8,965	0.12%	1	0.00%	151	0.07%	8,414	3.71%	399	0.18%
2007	578,808	7.55%	17,067	0.22%	2	0.00%	296	0.13%	16,043	7.08%	726	0.32%
2008	88,438	1.15%	1,872	0.02%	0	0.00%	15	0.01%	1,767	0.78%	90	0.04%
2009	44,925	0.59%	788	0.01%	0	0.00%	2	0.00%	746	0.33%	40	0.02%
2010	28,511	0.37%	229	0.00%	0	0.00%	2	0.00%	215	0.09%	12	0.01%
2011	25,293	0.33%	297	0.00%	0	0.00%	0	0.00%	291	0.13%	6	0.00%
2012	28,604	0.37%	687	0.01%	0	0.00%	1	0.00%	681	0.30%	5	0.00%
2013	13,752	0.18%	370	0.00%	0	0.00%	0	0.00%	364	0.16%	6	0.00%
2014	787	0.01%	39	0.00%	0	0.00%	0	0.00%	39	0.02%	0	0.00%
2015	1	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Total	7,666,257	100.00%	226,555	2.96%	50	0.02%	6,540	2.89%	204,254	90.16%	15,711	6.93%

A-06 EPA Report 51.366 a.2.xix, a.2.xx, a.2.xxi, a.2.xxii
Comparison of MIL Command Status and Stored DTCs
Heavy Duty Trucks (Diesel)
Year:2013

Vehicle Model Year	All Vehicles All Test Types		Heavy Duty Trucks All Test Types		MIL Commanded On No DTCs Stored		MIL Commanded On DTCs Stored		MIL Commanded Off No DTCs Stored		MIL Commanded Off DTCs Stored	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of Heavy Duty Trucks	Count	Percent of Heavy Duty Trucks	Count	Percent of Heavy Duty Trucks	Count	Percent of Heavy Duty Trucks
1998	3,261	3.47%	2,563	2.73%	20	0.02%	115	0.14%	1,746	2.07%	682	0.81%
1999	10,712	11.39%	9,821	10.44%	13	0.02%	432	0.51%	8,349	9.92%	1,027	1.22%
2000	9,875	10.50%	9,201	9.78%	14	0.02%	313	0.37%	7,997	9.50%	877	1.04%
2001	13,932	14.82%	12,984	13.81%	23	0.03%	413	0.49%	11,229	13.34%	1,319	1.57%
2002	14,927	15.87%	13,281	14.12%	12	0.01%	299	0.36%	11,639	13.82%	1,331	1.58%
2003	13,499	14.36%	11,565	12.30%	869	1.03%	468	0.56%	8,990	10.68%	1,238	1.47%
2004	11,359	12.08%	10,343	11.00%	4	0.00%	170	0.20%	8,834	10.49%	1,335	1.59%
2005	13,950	14.84%	12,361	13.15%	2	0.00%	137	0.16%	10,978	13.04%	1,244	1.48%
2006	2,450	2.61%	2,015	2.14%	0	0.00%	53	0.06%	1,557	1.85%	405	0.48%
2007	52	0.06%	51	0.05%	0	0.00%	0	0.00%	44	0.05%	7	0.01%
2008	15	0.02%	15	0.02%	0	0.00%	0	0.00%	12	0.01%	3	0.00%
2011	1	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Total	94,033	100.00%	84,200	89.54%	957	1.14%	2,400	2.85%	71,375	84.77%	9,468	11.24%

A-06 EPA Report 51.366 a.2.xxiii
Initial Test Readiness Failures (Non-Diesel)

Year:2013

Vehicle Model Year	All Vehicles		Passenger Cars		Light Duty Trucks		Medium Duty Trucks		Heavy Duty Trucks	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
1996	16,742	7.52%	9,483	4.26%	5,528	2.48%	1,315	0.59%	416	0.19%
1997	25,107	11.28%	13,516	6.07%	8,559	3.84%	2,321	1.04%	711	0.32%
1998	23,330	10.48%	11,742	5.27%	7,981	3.58%	3,081	1.38%	526	0.24%
1999	29,166	13.10%	14,144	6.35%	7,769	3.49%	6,193	2.78%	1,060	0.48%
2000	25,863	11.62%	13,550	6.09%	7,306	3.28%	4,173	1.87%	834	0.37%
2001	31,131	13.98%	14,898	6.69%	8,709	3.91%	6,430	2.89%	1,094	0.49%
2002	16,409	7.37%	8,748	3.93%	4,354	1.96%	2,793	1.25%	514	0.23%
2003	20,112	9.03%	10,060	4.52%	5,388	2.42%	3,891	1.75%	773	0.35%
2004	9,240	4.15%	4,785	2.15%	2,091	0.94%	1,940	0.87%	424	0.19%
2005	12,752	5.73%	6,816	3.06%	3,331	1.50%	2,007	0.90%	598	0.27%
2006	4,257	1.91%	2,217	1.00%	1,172	0.53%	658	0.30%	210	0.09%
2007	5,531	2.48%	2,744	1.23%	1,437	0.65%	1,056	0.47%	294	0.13%
2008	1,008	0.45%	608	0.27%	183	0.08%	175	0.08%	42	0.02%
2009	655	0.29%	443	0.20%	112	0.05%	83	0.04%	17	0.01%
2010	426	0.19%	293	0.13%	64	0.03%	63	0.03%	6	0.00%
2011	356	0.16%	253	0.11%	53	0.02%	48	0.02%	2	0.00%
2012	347	0.16%	235	0.11%	54	0.02%	45	0.02%	13	0.01%
2013	215	0.10%	121	0.05%	39	0.02%	38	0.02%	17	0.01%
2014	19	0.01%	9	0.00%	5	0.00%	4	0.00%	1	0.00%
Total	222,666	100.00%	114,665	51.50%	64,135	28.80%	36,314	16.31%	7,552	3.39%

A-06 EPA Report 51.366 a.2.xxiii
 Initial Test Readiness Failures (Diesel)

Year:2013

Vehicle Model Year	All Vehicles		Passenger Cars		Light Duty Trucks		Medium Duty Trucks		Heavy Duty Trucks	
	Count	Percent	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
2001	3	13.04%	0	0.00%	1	4.35%	0	0.00%	2	8.70%
2002	1	4.35%	0	0.00%	0	0.00%	0	0.00%	1	4.35%
2004	13	56.52%	13	56.52%	0	0.00%	0	0.00%	0	0.00%
2005	5	21.74%	5	21.74%	0	0.00%	0	0.00%	0	0.00%
2006	1	4.35%	1	4.35%	0	0.00%	0	0.00%	0	0.00%
Total	23	100.00%	19	82.61%	1	4.35%	0	0.00%	3	13.04%

A-06 EPA Report 51.366 a.3
Initial Tests by Model Year and Station Type (Non-Diesel)

Year:2013

Vehicle Model Year	All Vehicle Count	Business Fleet		Gold Shield		Government Fleet		Permanent Fleet Registered		Referee		Regular Test and Repair		Test Only	
		Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
0	2	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	1	0.00%
1933	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1951	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1955	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1960	5	0	0.00%	0	0.00%	0	0.00%	0	0.00%	5	0.00%	0	0.00%	0	0.00%
1964	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1965	2	0	0.00%	0	0.00%	0	0.00%	0	0.00%	2	0.00%	0	0.00%	0	0.00%
1967	2	0	0.00%	0	0.00%	0	0.00%	0	0.00%	2	0.00%	0	0.00%	0	0.00%
1968	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1970	2	0	0.00%	0	0.00%	0	0.00%	0	0.00%	2	0.00%	0	0.00%	0	0.00%
1971	2	0	0.00%	0	0.00%	0	0.00%	0	0.00%	2	0.00%	0	0.00%	0	0.00%
1973	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1974	2	0	0.00%	0	0.00%	0	0.00%	0	0.00%	2	0.00%	0	0.00%	0	0.00%
1975	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1976	9,148	0	0.00%	1,977	0.02%	2	0.00%	0	0.00%	47	0.00%	1,760	0.02%	5,362	0.05%
1977	12,207	0	0.00%	2,623	0.02%	3	0.00%	0	0.00%	79	0.00%	2,410	0.02%	7,092	0.06%
1978	14,064	0	0.00%	2,981	0.03%	7	0.00%	1	0.00%	56	0.00%	2,712	0.02%	8,307	0.07%
1979	15,256	0	0.00%	3,250	0.03%	15	0.00%	0	0.00%	41	0.00%	2,897	0.03%	9,052	0.08%
1980	9,064	0	0.00%	1,947	0.02%	10	0.00%	0	0.00%	25	0.00%	1,616	0.01%	5,466	0.05%
1981	10,366	0	0.00%	2,244	0.02%	13	0.00%	0	0.00%	32	0.00%	1,845	0.02%	6,232	0.06%
1982	11,732	0	0.00%	2,502	0.02%	14	0.00%	1	0.00%	26	0.00%	2,026	0.02%	7,163	0.06%
1983	15,421	0	0.00%	3,310	0.03%	15	0.00%	0	0.00%	38	0.00%	2,671	0.02%	9,387	0.08%
1984	27,719	0	0.00%	5,869	0.05%	20	0.00%	0	0.00%	81	0.00%	4,950	0.04%	16,799	0.15%
1985	37,513	0	0.00%	7,966	0.07%	27	0.00%	0	0.00%	84	0.00%	6,513	0.06%	22,922	0.21%
1986	53,509	0	0.00%	11,245	0.10%	48	0.00%	0	0.00%	91	0.00%	9,281	0.08%	32,844	0.30%
1987	61,668	0	0.00%	12,811	0.12%	477	0.00%	3	0.00%	102	0.00%	10,194	0.09%	38,081	0.34%
1988	73,996	0	0.00%	14,939	0.13%	1,364	0.01%	9	0.00%	107	0.00%	12,403	0.11%	45,174	0.41%

A-06 EPA Report 51.366 a.3
Initial Tests by Model Year and Station Type (Non-Diesel)

Year:2013

Vehicle Model Year	All Vehicle Count	Business Fleet		Gold Shield		Government Fleet		Permanent Fleet Registered		Referee		Regular Test and Repair		Test Only	
		Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
1989	103,812	0	0.00%	21,130	0.19%	1,345	0.01%	2	0.00%	113	0.00%	16,800	0.15%	64,422	0.58%
1990	128,341	0	0.00%	25,800	0.23%	1,204	0.01%	17	0.00%	158	0.00%	20,324	0.18%	80,838	0.73%
1991	157,884	0	0.00%	31,912	0.29%	1,947	0.02%	3	0.00%	135	0.00%	24,020	0.22%	99,867	0.90%
1992	162,411	0	0.00%	32,585	0.29%	1,719	0.02%	0	0.00%	167	0.00%	24,584	0.22%	103,356	0.93%
1993	203,875	1	0.00%	41,072	0.37%	1,550	0.01%	6	0.00%	154	0.00%	30,451	0.27%	130,640	1.18%
1994	247,595	0	0.00%	49,839	0.45%	1,209	0.01%	0	0.00%	199	0.00%	37,841	0.34%	158,507	1.43%
1995	359,658	1	0.00%	73,704	0.66%	361	0.00%	0	0.00%	231	0.00%	52,078	0.47%	233,280	2.10%
1996	286,735	0	0.00%	57,147	0.51%	405	0.00%	0	0.00%	255	0.00%	44,453	0.40%	184,475	1.66%
1997	499,217	6	0.00%	104,763	0.94%	640	0.01%	16	0.00%	320	0.00%	71,748	0.65%	321,724	2.89%
1998	443,819	0	0.00%	89,093	0.80%	971	0.01%	3	0.00%	242	0.00%	71,142	0.64%	282,368	2.54%
1999	707,004	4	0.00%	152,185	1.37%	1,276	0.01%	10	0.00%	256	0.00%	117,347	1.06%	435,925	3.92%
2000	556,030	3	0.00%	111,809	1.01%	2,096	0.02%	1	0.00%	248	0.00%	105,124	0.95%	336,748	3.03%
2001	1,032,978	6	0.00%	229,378	2.06%	2,792	0.03%	10	0.00%	312	0.00%	177,212	1.59%	623,264	5.61%
2002	530,739	0	0.00%	104,983	0.94%	2,005	0.02%	1	0.00%	178	0.00%	116,150	1.04%	307,421	2.77%
2003	1,190,144	6	0.00%	255,612	2.30%	2,611	0.02%	88	0.00%	263	0.00%	243,282	2.19%	688,274	6.19%
2004	489,302	1	0.00%	95,175	0.86%	1,727	0.02%	11	0.00%	131	0.00%	124,133	1.12%	268,121	2.41%
2005	1,310,299	12	0.00%	268,444	2.41%	2,374	0.02%	155	0.00%	210	0.00%	321,224	2.89%	717,872	6.46%
2006	434,763	1	0.00%	80,940	0.73%	2,380	0.02%	4	0.00%	98	0.00%	132,606	1.19%	218,728	1.97%
2007	1,349,412	19	0.00%	275,659	2.48%	3,372	0.03%	416	0.00%	211	0.00%	351,654	3.16%	718,055	6.46%
2008	201,792	1	0.00%	36,625	0.33%	139	0.00%	2	0.00%	49	0.00%	83,706	0.75%	81,256	0.73%
2009	110,878	0	0.00%	16,671	0.15%	70	0.00%	0	0.00%	28	0.00%	57,483	0.52%	36,618	0.33%
2010	72,304	0	0.00%	10,812	0.10%	19	0.00%	0	0.00%	41	0.00%	40,417	0.36%	21,012	0.19%
2011	64,930	0	0.00%	9,847	0.09%	5	0.00%	0	0.00%	37	0.00%	36,747	0.33%	18,287	0.16%
2012	80,415	0	0.00%	11,836	0.11%	59	0.00%	0	0.00%	92	0.00%	46,415	0.42%	21,999	0.20%
2013	38,687	0	0.00%	7,893	0.07%	13	0.00%	1	0.00%	189	0.00%	19,064	0.17%	11,525	0.10%
2014	2,726	0	0.00%	825	0.01%	0	0.00%	0	0.00%	2	0.00%	797	0.01%	1,102	0.01%
2015	7	0	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%	6	0.00%	0	0.00%

A-06 EPA Report 51.366 a.3
 Initial Tests by Model Year and Station Type (Non-Diesel)

Year:2013

Vehicle Model Year	All Vehicle Count	Business Fleet		Gold Shield		Government Fleet		Permanent Fleet Registered		Referee		Regular Test and Repair		Test Only	
		Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
Total	11,117,444	61	0.00%	2,269,404	20.41%	34,304	0.31%	760	0.01%	5,150	0.05%	2,428,087	21.84%	6,379,566	57.38%

A-06 EPA Report 51.366 a.3
Initial Tests by Model Year and Station Type (Diesel)

Year:2013

Vehicle Model Year	All Vehicle Count	Business Fleet		Gold Shield		Government Fleet		Permanent Fleet Registered		Referee		Regular Test and Repair		Test Only	
		Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
1976	5	0	0.00%	0	0.00%	0	0.00%	0	0.00%	5	0.00%	0	0.00%	0	0.00%
1978	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1979	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1981	3	0	0.00%	0	0.00%	0	0.00%	0	0.00%	3	0.00%	0	0.00%	0	0.00%
1982	2	0	0.00%	0	0.00%	0	0.00%	0	0.00%	2	0.00%	0	0.00%	0	0.00%
1985	3	0	0.00%	0	0.00%	0	0.00%	0	0.00%	3	0.00%	0	0.00%	0	0.00%
1986	2	0	0.00%	0	0.00%	0	0.00%	0	0.00%	2	0.00%	0	0.00%	0	0.00%
1987	5	0	0.00%	0	0.00%	0	0.00%	0	0.00%	5	0.00%	0	0.00%	0	0.00%
1988	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1990	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1994	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1995	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1996	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1997	2	0	0.00%	0	0.00%	0	0.00%	0	0.00%	2	0.00%	0	0.00%	0	0.00%
1998	3,516	0	0.00%	728	0.32%	11	0.00%	0	0.00%	20	0.01%	1,226	0.53%	1,531	0.67%
1999	11,668	1	0.00%	2,453	1.07%	43	0.02%	0	0.00%	21	0.01%	4,272	1.86%	4,878	2.13%
2000	10,862	0	0.00%	2,289	1.00%	25	0.01%	0	0.00%	11	0.00%	3,905	1.70%	4,630	2.02%
2001	15,094	0	0.00%	3,212	1.40%	65	0.03%	0	0.00%	15	0.01%	5,413	2.36%	6,389	2.79%
2002	16,283	0	0.00%	3,493	1.52%	40	0.02%	0	0.00%	15	0.01%	5,723	2.50%	7,011	3.06%
2003	19,836	1	0.00%	4,142	1.81%	81	0.04%	0	0.00%	17	0.01%	6,997	3.05%	8,598	3.75%
2004	21,818	0	0.00%	4,466	1.95%	29	0.01%	0	0.00%	9	0.00%	7,563	3.30%	9,750	4.25%
2005	24,370	0	0.00%	4,936	2.15%	52	0.02%	0	0.00%	14	0.01%	8,269	3.60%	11,099	4.84%
2006	29,004	0	0.00%	6,193	2.70%	61	0.03%	0	0.00%	16	0.01%	9,962	4.34%	12,771	5.57%
2007	16,706	0	0.00%	3,548	1.55%	45	0.02%	2	0.00%	7	0.00%	5,844	2.55%	7,259	3.16%
2008	16,598	0	0.00%	3,427	1.49%	132	0.06%	0	0.00%	10	0.00%	6,273	2.73%	6,755	2.94%
2009	7,009	0	0.00%	1,482	0.65%	58	0.03%	0	0.00%	1	0.00%	2,474	1.08%	2,992	1.30%
2010	5,425	0	0.00%	1,030	0.45%	22	0.01%	0	0.00%	0	0.00%	2,131	0.93%	2,242	0.98%

A-06 EPA Report 51.366 a.3
 Initial Tests by Model Year and Station Type (Diesel)

Year:2013

Vehicle Model Year	All Vehicle Count	Business Fleet		Gold Shield		Government Fleet		Permanent Fleet Registered		Referee		Regular Test and Repair		Test Only	
		Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
2011	20,244	0	0.00%	4,091	1.78%	29	0.01%	0	0.00%	0	0.00%	7,287	3.18%	8,837	3.85%
2012	8,275	0	0.00%	1,888	0.82%	16	0.01%	0	0.00%	4	0.00%	3,066	1.34%	3,300	1.44%
2013	2,418	0	0.00%	620	0.27%	1	0.00%	0	0.00%	0	0.00%	1,000	0.44%	797	0.35%
2014	221	0	0.00%	73	0.03%	0	0.00%	0	0.00%	0	0.00%	84	0.04%	64	0.03%
Total	229,376	2	0.00%	48,071	20.96%	710	0.31%	2	0.00%	189	0.08%	81,489	35.53%	98,903	43.12%

A-06 EPA Report 51.366 a.4
Initial Test Failures by Model Year and Station Type (Non-Diesel)

Year:2013

Vehicle Model Year	All Vehicle Count	Business Fleet		Gold Shield		Government Fleet		Permanent Fleet Registered		Referee		Regular Test and Repair		Test Only	
		Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
0	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%
1965	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1967	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1970	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1971	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1973	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1974	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1975	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1976	3,020	0	0.00%	738	0.05%	0	0.00%	0	0.00%	30	0.00%	429	0.03%	1,823	0.13%
1977	4,103	0	0.00%	991	0.07%	0	0.00%	0	0.00%	56	0.00%	604	0.04%	2,452	0.18%
1978	4,649	0	0.00%	1,155	0.09%	3	0.00%	0	0.00%	37	0.00%	651	0.05%	2,803	0.21%
1979	5,309	0	0.00%	1,308	0.10%	5	0.00%	0	0.00%	28	0.00%	723	0.05%	3,245	0.24%
1980	3,043	0	0.00%	738	0.05%	1	0.00%	0	0.00%	19	0.00%	396	0.03%	1,889	0.14%
1981	3,741	0	0.00%	924	0.07%	1	0.00%	0	0.00%	21	0.00%	482	0.04%	2,313	0.17%
1982	4,226	0	0.00%	1,037	0.08%	1	0.00%	0	0.00%	17	0.00%	553	0.04%	2,618	0.19%
1983	5,590	0	0.00%	1,329	0.10%	2	0.00%	0	0.00%	32	0.00%	660	0.05%	3,567	0.26%
1984	10,327	0	0.00%	2,441	0.18%	7	0.00%	0	0.00%	58	0.00%	1,339	0.10%	6,482	0.48%
1985	13,633	0	0.00%	3,302	0.24%	6	0.00%	0	0.00%	60	0.00%	1,699	0.13%	8,565	0.63%
1986	18,738	0	0.00%	4,368	0.32%	12	0.00%	0	0.00%	64	0.00%	2,274	0.17%	12,020	0.88%
1987	21,602	0	0.00%	4,963	0.37%	81	0.01%	0	0.00%	70	0.01%	2,452	0.18%	14,036	1.03%
1988	24,746	0	0.00%	5,626	0.41%	150	0.01%	0	0.00%	65	0.00%	2,871	0.21%	16,034	1.18%
1989	33,179	0	0.00%	7,362	0.54%	174	0.01%	0	0.00%	72	0.01%	3,672	0.27%	21,899	1.61%
1990	40,212	0	0.00%	8,802	0.65%	138	0.01%	0	0.00%	98	0.01%	4,297	0.32%	26,877	1.98%
1991	48,410	0	0.00%	10,535	0.78%	196	0.01%	0	0.00%	86	0.01%	4,974	0.37%	32,619	2.40%
1992	49,583	0	0.00%	10,780	0.79%	237	0.02%	0	0.00%	117	0.01%	5,083	0.37%	33,366	2.46%
1993	65,594	0	0.00%	14,353	1.06%	426	0.03%	0	0.00%	98	0.01%	6,541	0.48%	44,176	3.25%
1994	73,658	0	0.00%	16,112	1.19%	257	0.02%	0	0.00%	131	0.01%	7,737	0.57%	49,421	3.64%

A-06 EPA Report 51.366 a.4
Initial Test Failures by Model Year and Station Type (Non-Diesel)

Year:2013

Vehicle Model Year	All Vehicle Count	Business Fleet		Gold Shield		Government Fleet		Permanent Fleet Registered		Referee		Regular Test and Repair		Test Only	
		Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
1995	94,447	1	0.00%	21,043	1.55%	40	0.00%	0	0.00%	133	0.01%	9,199	0.68%	64,030	4.71%
1996	68,779	0	0.00%	14,934	1.10%	34	0.00%	0	0.00%	138	0.01%	7,608	0.56%	46,065	3.39%
1997	96,294	0	0.00%	21,565	1.59%	44	0.00%	2	0.00%	158	0.01%	10,013	0.74%	64,512	4.75%
1998	78,197	0	0.00%	16,875	1.24%	61	0.00%	1	0.00%	100	0.01%	9,065	0.67%	52,095	3.83%
1999	89,888	0	0.00%	20,200	1.49%	53	0.00%	0	0.00%	101	0.01%	10,634	0.78%	58,900	4.34%
2000	74,017	0	0.00%	16,072	1.18%	88	0.01%	0	0.00%	110	0.01%	10,098	0.74%	47,649	3.51%
2001	119,849	1	0.00%	27,506	2.02%	180	0.01%	0	0.00%	102	0.01%	15,123	1.11%	76,937	5.66%
2002	60,915	0	0.00%	12,713	0.94%	84	0.01%	0	0.00%	72	0.01%	9,945	0.73%	38,101	2.80%
2003	87,216	1	0.00%	19,515	1.44%	152	0.01%	6	0.00%	77	0.01%	12,784	0.94%	54,681	4.02%
2004	34,528	0	0.00%	7,194	0.53%	60	0.00%	0	0.00%	43	0.00%	6,560	0.48%	20,671	1.52%
2005	58,208	0	0.00%	12,438	0.92%	67	0.00%	11	0.00%	45	0.00%	11,688	0.86%	33,959	2.50%
2006	18,849	0	0.00%	3,743	0.28%	77	0.01%	1	0.00%	24	0.00%	4,605	0.34%	10,399	0.77%
2007	34,342	0	0.00%	7,947	0.58%	191	0.01%	31	0.00%	24	0.00%	7,550	0.56%	18,599	1.37%
2008	4,050	0	0.00%	769	0.06%	4	0.00%	0	0.00%	9	0.00%	1,558	0.11%	1,710	0.13%
2009	2,028	0	0.00%	373	0.03%	2	0.00%	0	0.00%	2	0.00%	944	0.07%	707	0.05%
2010	1,129	0	0.00%	197	0.01%	0	0.00%	0	0.00%	5	0.00%	586	0.04%	341	0.03%
2011	951	0	0.00%	190	0.01%	0	0.00%	0	0.00%	8	0.00%	495	0.04%	258	0.02%
2012	944	0	0.00%	178	0.01%	5	0.00%	0	0.00%	10	0.00%	513	0.04%	238	0.02%
2013	547	0	0.00%	94	0.01%	1	0.00%	0	0.00%	46	0.00%	248	0.02%	158	0.01%
2014	50	0	0.00%	24	0.00%	0	0.00%	0	0.00%	0	0.00%	10	0.00%	16	0.00%
Total	1,358,599	3	0.00%	300,434	22.11%	2,840	0.21%	52	0.00%	2,373	0.17%	176,663	13.00%	876,232	64.50%

A-06 EPA Report 51.366 a.4
Initial Test Failures by Model Year and Station Type (Diesel)

Year:2013

Vehicle Model Year	All Vehicle Count	Business Fleet		Gold Shield		Government Fleet		Permanent Fleet Registered		Referee		Regular Test and Repair		Test Only	
		Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles
1976	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.01%	0	0.00%	0	0.00%
1981	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.01%	0	0.00%	0	0.00%
1982	2	0	0.00%	0	0.00%	0	0.00%	0	0.00%	2	0.02%	0	0.00%	0	0.00%
1986	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.01%	0	0.00%	0	0.00%
1987	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.01%	0	0.00%	0	0.00%
1990	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.01%	0	0.00%	0	0.00%
1997	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.01%	0	0.00%	0	0.00%
1998	381	0	0.00%	89	0.96%	0	0.00%	0	0.00%	10	0.11%	107	1.15%	175	1.88%
1999	817	0	0.00%	191	2.06%	0	0.00%	0	0.00%	1	0.01%	237	2.55%	388	4.18%
2000	623	0	0.00%	145	1.56%	0	0.00%	0	0.00%	0	0.00%	188	2.02%	290	3.12%
2001	1,108	0	0.00%	249	2.68%	3	0.03%	0	0.00%	5	0.05%	316	3.40%	535	5.76%
2002	1,212	0	0.00%	266	2.86%	3	0.03%	0	0.00%	3	0.03%	341	3.67%	599	6.45%
2003	1,528	0	0.00%	352	3.79%	2	0.02%	0	0.00%	8	0.09%	428	4.61%	738	7.94%
2004	1,016	0	0.00%	218	2.35%	0	0.00%	0	0.00%	4	0.04%	270	2.91%	524	5.64%
2005	950	0	0.00%	213	2.29%	1	0.01%	0	0.00%	3	0.03%	245	2.64%	488	5.25%
2006	850	0	0.00%	235	2.53%	1	0.01%	0	0.00%	2	0.02%	192	2.07%	420	4.52%
2007	364	0	0.00%	100	1.08%	1	0.01%	0	0.00%	4	0.04%	85	0.91%	174	1.87%
2008	212	0	0.00%	51	0.55%	0	0.00%	0	0.00%	2	0.02%	56	0.60%	103	1.11%
2009	74	0	0.00%	14	0.15%	0	0.00%	0	0.00%	0	0.00%	14	0.15%	46	0.50%
2010	41	0	0.00%	9	0.10%	0	0.00%	0	0.00%	0	0.00%	11	0.12%	21	0.23%
2011	87	0	0.00%	18	0.19%	0	0.00%	0	0.00%	0	0.00%	16	0.17%	53	0.57%
2012	19	0	0.00%	6	0.06%	0	0.00%	0	0.00%	0	0.00%	6	0.06%	7	0.08%
2013	2	0	0.00%	1	0.01%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.01%
Total	9,292	0	0.00%	2,157	23.21%	11	0.12%	0	0.00%	50	0.54%	2,512	27.03%	4,562	49.10%



Calendar Year 2013

I/M Rule Section 51.366 Data Analysis and Reporting

(b) Quality assurance report

(c) Quality control report

Smog Check License Information

Smog Check Station Licenses Issued	1,043
Licensed Smog Check Stations as of 12/31/2013	7,291
Licensed Smog Check Technicians as of 12/31/2013	25,525

Inspections Overt

Initial Inspections	1,543
Quality Assurance (QA) Inspections	29
Consumer Assistance Program (CAP) Inspections	22
Equipment Audit Inspections	3,579
Other Inspections (used car lot inspections included in total)	1,415
Total Inspections	6,588

Undercover Run Data Covert

Undercover Runs Conducted	943
Positive Undercover Runs	303
Percentage of Positive Runs	32%
Smog Check Stations Receiving U/C Runs	793

Citations Issued

Station Citations	315
Station Citation Fines	\$472,500
Technician Citations	318
Technician Training Hours Required	3,076



Calendar Year 2013

I/M Rule Section 51.366 Data Analysis and Reporting

(b) Quality assurance report

(c) Quality control report

Administrative Disciplinary Filings

Hearings	26
Stipulation Settlement	87
Default Decision	63
Total Cases Adjudicated	176
Licenses Revoked	118
ISO/PC 23 Filings	19
Probation Ordered	24
Probation/Suspension Ordered	29
Total Licenses Disciplined*	171

** ISO/PC 23 Orders are not included in total since they are counted in "Licenses Revoked" section.*

Equipment Audit Inspections

Gas Audits

Gas Audit Inspections	3,418
Stations Audited	3,106
Stations Failing Gas Audit	446
Emissions Inspection Systems (EIS) Audited	3,279
Emissions Inspection Systems (EIS) Failed	449

**Calendar Year 2013*****I/M Rule Section 51.366 Data Analysis and Reporting***

(b) Quality assurance report

(c) Quality control report

Tamper Audits

Total Tamper Audits	3,579
Total Failing Tamper Audit	460
Stations Audited	3,106
Stations Failing Tamper Audit	431
Emissions Inspection Systems (EIS) Audited	3,279
Emissions Inspection Systems (EIS) Failed	450

All Equipment Audits

Total Inspections	3,579
Total Lockouts*	260
Total Correction Notices*	1,320
Stations Locked Out	254
Stations given "correction notice" to correct	1,233
EIS Locked Out	257
EIS given "correction notice" to correct	1,283

*Note: Some stations may receive more than one inspection but only one lockout/notice is issued per visit.

Resources for Undercover Audits

Vehicles Available for Undercover Audits (I/M Related)	148
Auditors Available for Undercover Audits	226

**Calendar Year 2013*****I/M Rule Section 51.366 Data Analysis and Reporting***

(b) Quality assurance report

(c) Quality control report

Inspections (Overt):

Initial Inspection: Performed prior to issuing a new Smog Check station license to determine compliance with requirements for station equipment and technician competence. This includes Follow Up inspections to verify compliance of any deficiencies.

Quality Assurance (QA) Inspection: Performed to ensure stations meet equipment, manual and signage requirements, inspect invoice and inspection reports, and assess technician testing, diagnosis and repair skills. This includes Follow Up inspections to verify compliance of any deficiencies.

Consumer Assistance Program (CAP) Inspection: Performed to review repairs for compliance with the CAP Program regulations. Includes paperwork requirements, pricing and repair effectiveness. This includes Follow Up inspections to verify compliance of any deficiencies.

Equipment Audit Inspection: BAR inspectors visit enhanced area Smog Check stations to audit the BAR 97 Emissions Inspection System (EIS) for compliance to standard specifications. Equipment audits include analyzer gas audits, analyzer tamper audits and dynamometer audits. The BAR 97 EIS tamper inspection focuses on identifying disabled or bypassed tamper detection systems and unauthorized modifications. The gas analyzer and dynamometer audits focus on verifying their in-use accuracies. A station may be selected either from a random list of active stations or selected for a re-visit based upon observed problems by BAR field staff during a prior visit.

Other Inspection: Inspections classified as “other” performed when a station inspection is deemed necessary. This includes Used Car Lot Inspections and Follow Up inspections to verify compliance of any deficiencies.

Undercover Runs (Covert Station Audits)

The Bureau of Automotive Repair does not perform periodic covert audits on every licensed Smog Check station. Instead, BAR’s undercover enforcement efforts are focused on those stations suspected of wrong doing as determined by a review of the Vehicle Information Database (VID) data, consumer complaints, or anonymous tips.

Citations

Citations are issued against Smog Check Stations for a monetary penalty from \$1,000 to \$5,000. Smog Check Technicians are issued citations, which require completion of 8 hour, 16 hour or 68 hour training courses; however, subsequent violations may lead to a monetary penalty for technicians. All fines and training hour values represent assessed penalties and are not necessarily collected or completed.

**Calendar Year 2013*****I/M Rule Section 51.366 Data Analysis and Reporting***

(b) Quality assurance report

(c) Quality control report

Administrative Disciplinary Filings

Administrative disciplinary cases are filed with the Attorney General's Office. Each case filing includes multiple licensees; i.e., Automotive Repair Dealer registration, Smog Check station license, brake or lamp station license, and Smog Check technician license. In some instances ISO (Interim Suspension Order) and PC 23 (Penal Code Section 23) are filed when violations are egregious and/or impact to public safety to suspend licenses and registrations.

Cases are adjudicated in hearings held before an Administrative Law Judge, through stipulated settlements, or by default decisions. Licenses can be revoked outright, or the revocation may be stayed with the license placed on probation (usually for a period of from 1 to 5 years). The suspension of a license for a specific number of days or months can also be included with probation.

Resources for Undercover Runs (Covert Station Audits)

Available vehicles includes the entire fleet of undercover vehicles used to perform covert audits on automotive repair stations, auto body shops, Smog Check stations, and any other facility regulated by the Bureau of Automotive Repair.

Field Staff classified as Program Representative's are assigned to perform overt audits, covert audits, complaint mediation, and investigations among other duties.