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Air Resources Board

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Arnold Schwarzenegger
Governor

July 30, 2010

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

Dear Mr. Buss

Enclosed is a compilation of data prepared by the Bureau of Automotive Repair (BAR) to meet the requirements of CFR section 51.366. This section requires the 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.

Please feel free to contact me should you have questions or comments regarding this submittal. You can reach me at (916) 323-1683, or by e-mail at jwallauc@arb.ca.gov.

Sincerely,

John Wallauch
Program Manager for Smog Check

Enclosure

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

**I/M RULE SECTION 51.366 DATA ANALYSIS AND REPORTING
CALIFORNIA BUREAU OF AUTOMOTIVE REPAIR
CALENDAR YEAR 2009**

(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	
(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
CALIFORNIA BUREAU OF AUTOMOTIVE REPAIR
CALENDAR YEAR 2009**

(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 2009**

(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:		
	An estimate of the number of vehicles subject to the inspection program, including the results of an analysis of the registration data base;	24,225,023	This is California'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. Diesel powered vehicles less than 14,001 GVWR will be subject to the Smog Check program starting January 2010.
	ii The percentage of motorist compliance based upon a comparison of the number of valid final tests with the number of subject vehicles;	N/A	
	iii The total number of compliance documents issued to inspection stations;	9,626,650	Total certificates purchased and issued to Smog Check stations during calendar year 2009.
	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	4,463 waivers 125 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. A one-time hardship extension was also available to low-income vehicle owners until its termination on August 1, 2009. The hardship extension is no longer available due to a fully operational repair assistance program for low-income motorists.

**I/M RULE SECTION 51.366 DATA ANALYSIS AND REPORTING
CALIFORNIA BUREAU OF AUTOMOTIVE REPAIR
CALENDAR YEAR 2009**

vi	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 2009.
(2)	Registration denial based enforcement programs shall provide the following additional information:		
i	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		
ii	The number of registration file audits, number of registrations reviewed, and compliance rates found in such audits.	BAR periodically analyzes program data and works with the Department of Motor Vehicles (DMV) on efforts and actions to prevent motorists from falsely registering vehicles.	
(3)	Computer-matching based enforcement programs shall provide the following additional information:	N/A	
i	The number and percentage of subject vehicles that were tested by the initial deadline, and by other milestones in the cycle;	N/A	
ii	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	
iii	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	
i	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	
ii	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	
iii	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 2nd year and will be addressed in the 2010 EPA report.

**I/M RULE SECTION 51.371 ON-ROAD TESTING
CALIFORNIA BUREAU OF AUTOMOTIVE REPAIR
CALENDAR YEAR 2009**

(a)	General Requirements	Data	Clarification
(3)	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.	8,029 Roadside Inspections	A third roadside pullover team was added on October 28, 2009. A fourth roadside pullover team will be added by the end of 2010.

I/M RULE SECTION 51.366 DATA ANALYSIS AND REPORTING:

ATTACHMENT A

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A-06 EPA Report 51.366 a.1
Vehicle Count

Year:2009

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	16	0.00%	12	0.00%	2	0.00%	2	0.00%	0	0.00%
1932	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
1934	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
1947	1	0.00%	0	0.00%	1	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	3	0.00%	3	0.00%	0	0.00%	0	0.00%	0	0.00%
1965	5	0.00%	5	0.00%	0	0.00%	0	0.00%	0	0.00%
1966	2	0.00%	2	0.00%	0	0.00%	0	0.00%	0	0.00%
1967	3	0.00%	3	0.00%	0	0.00%	0	0.00%	0	0.00%
1968	2	0.00%	1	0.00%	1	0.00%	0	0.00%	0	0.00%
1969	3	0.00%	3	0.00%	0	0.00%	0	0.00%	0	0.00%
1970	9	0.00%	5	0.00%	2	0.00%	2	0.00%	0	0.00%
1971	4	0.00%	3	0.00%	0	0.00%	0	0.00%	1	0.00%
1972	4	0.00%	3	0.00%	1	0.00%	0	0.00%	0	0.00%
1973	5	0.00%	3	0.00%	2	0.00%	0	0.00%	0	0.00%
1974	32	0.00%	13	0.00%	9	0.00%	6	0.00%	4	0.00%
1975	83	0.00%	32	0.00%	16	0.00%	18	0.00%	17	0.00%
1976	14,248	0.15%	5,893	0.06%	2,386	0.02%	4,014	0.04%	1,955	0.02%
1977	19,862	0.20%	7,398	0.08%	3,080	0.03%	6,488	0.07%	2,896	0.03%
1978	22,636	0.23%	9,039	0.09%	4,503	0.05%	5,434	0.06%	3,660	0.04%
1979	25,408	0.26%	10,951	0.11%	5,438	0.06%	5,284	0.05%	3,735	0.04%
1980	15,342	0.16%	7,124	0.07%	4,274	0.04%	1,824	0.02%	2,120	0.02%
1981	18,008	0.18%	8,339	0.08%	5,595	0.06%	1,348	0.01%	2,726	0.03%
1982	20,776	0.21%	9,688	0.10%	6,885	0.07%	1,459	0.01%	2,744	0.03%

A-06 EPA Report 51.366 a.1
 Vehicle Count

Year:2009

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
1983	28,076	0.29%	14,175	0.14%	8,564	0.09%	2,094	0.02%	3,243	0.03%
1984	51,447	0.52%	24,546	0.25%	17,153	0.17%	3,782	0.04%	5,966	0.06%
1985	69,618	0.71%	34,237	0.35%	23,507	0.24%	4,831	0.05%	7,043	0.07%
1986	99,174	1.01%	47,118	0.48%	38,551	0.39%	5,839	0.06%	7,666	0.08%
1987	118,046	1.20%	62,492	0.64%	40,998	0.42%	6,967	0.07%	7,589	0.08%
1988	142,785	1.45%	77,344	0.79%	45,738	0.47%	10,283	0.10%	9,420	0.10%
1989	194,515	1.98%	108,018	1.10%	59,095	0.60%	13,499	0.14%	13,903	0.14%
1990	233,044	2.37%	146,567	1.49%	58,205	0.59%	15,251	0.16%	13,021	0.13%
1991	275,209	2.80%	172,490	1.76%	79,101	0.81%	13,842	0.14%	9,776	0.10%
1992	275,520	2.80%	172,238	1.75%	74,795	0.76%	18,484	0.19%	10,003	0.10%
1993	336,360	3.42%	203,695	2.07%	99,921	1.02%	22,680	0.23%	10,064	0.10%
1994	380,486	3.87%	224,881	2.29%	109,278	1.11%	34,283	0.35%	12,044	0.12%
1995	551,981	5.62%	333,524	3.39%	150,061	1.53%	48,767	0.50%	19,629	0.20%
1996	386,543	3.93%	230,637	2.35%	107,564	1.09%	35,490	0.36%	12,852	0.13%
1997	689,331	7.02%	395,086	4.02%	203,495	2.07%	68,403	0.70%	22,347	0.23%
1998	532,383	5.42%	297,745	3.03%	162,585	1.65%	59,385	0.60%	12,668	0.13%
1999	914,148	9.30%	489,442	4.98%	246,012	2.50%	143,662	1.46%	35,032	0.36%
2000	560,342	5.70%	309,708	3.15%	150,319	1.53%	80,016	0.81%	20,299	0.21%
2001	1,308,444	13.32%	693,307	7.06%	341,322	3.47%	228,048	2.32%	45,767	0.47%
2002	450,110	4.58%	248,632	2.53%	112,441	1.14%	74,350	0.76%	14,687	0.15%
2003	1,449,066	14.75%	775,894	7.90%	343,456	3.50%	277,298	2.82%	52,418	0.53%
2004	220,124	2.24%	121,858	1.24%	50,143	0.51%	41,363	0.42%	6,760	0.07%
2005	192,016	1.95%	112,335	1.14%	41,397	0.42%	32,921	0.34%	5,363	0.05%
2006	88,110	0.90%	53,506	0.54%	17,442	0.18%	14,904	0.15%	2,258	0.02%

A-06 EPA Report 51.366 a.1
 Vehicle Count

Year:2009

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
2007	60,362	0.61%	37,233	0.38%	11,850	0.12%	9,952	0.10%	1,327	0.01%
2008	59,542	0.61%	38,135	0.39%	11,771	0.12%	8,013	0.08%	1,623	0.02%
2009	20,884	0.21%	13,804	0.14%	3,496	0.04%	2,430	0.02%	1,154	0.01%
2010	1,841	0.02%	1,178	0.01%	373	0.00%	264	0.00%	26	0.00%
2011	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
Total	9,825,967	100.00%	5,498,353	55.96%	2,640,828	26.88%	1,302,980	13.26%	383,806	3.91%

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

Year:2009

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
1964	2	0.00%	0	0.00%	2	0.00%	0	0.00%	0	0.00%
1965	3	0.00%	0	0.00%	3	0.00%	0	0.00%	0	0.00%
1966	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
1967	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
1969	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
1970	3	0.00%	3	0.00%	0	0.00%	0	0.00%	0	0.00%
1971	2	0.00%	2	0.00%	0	0.00%	0	0.00%	0	0.00%
1972	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
1973	3	0.00%	2	0.00%	1	0.00%	0	0.00%	0	0.00%
1974	14	0.00%	9	0.00%	3	0.00%	1	0.00%	1	0.00%
1975	22	0.00%	12	0.00%	2	0.00%	2	0.00%	6	0.00%
1976	4,244	0.35%	2,364	0.19%	353	0.03%	722	0.06%	789	0.06%
1977	5,760	0.47%	2,921	0.24%	468	0.04%	1,144	0.09%	1,205	0.10%
1978	6,750	0.55%	3,831	0.31%	610	0.05%	987	0.08%	1,309	0.11%
1979	7,929	0.65%	4,543	0.37%	683	0.06%	1,430	0.12%	1,259	0.10%
1980	4,455	0.36%	2,877	0.24%	482	0.04%	555	0.05%	531	0.04%
1981	5,422	0.44%	3,778	0.31%	593	0.05%	480	0.04%	555	0.05%
1982	6,132	0.50%	4,451	0.36%	659	0.05%	508	0.04%	496	0.04%
1983	8,260	0.68%	6,051	0.50%	901	0.07%	675	0.06%	613	0.05%
1984	15,745	1.29%	11,140	0.91%	1,745	0.14%	1,481	0.12%	1,346	0.11%
1985	20,430	1.67%	14,808	1.21%	2,286	0.19%	1,889	0.15%	1,416	0.12%
1986	27,271	2.23%	20,433	1.67%	3,157	0.26%	2,110	0.17%	1,539	0.13%
1987	33,373	2.73%	26,129	2.14%	3,627	0.30%	2,053	0.17%	1,521	0.12%
1988	37,312	3.05%	29,073	2.38%	3,804	0.31%	2,593	0.21%	1,800	0.15%

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

Year:2009

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	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles				
1989	46,223	3.78%	35,964	2.94%	4,533	0.37%	3,703	0.30%	1,976	0.16%				
1990	53,117	4.35%	42,649	3.49%	5,075	0.42%	3,639	0.30%	1,717	0.14%				
1991	59,445	4.87%	49,432	4.05%	5,929	0.49%	2,624	0.21%	1,410	0.12%				
1992	56,645	4.64%	45,296	3.71%	5,868	0.48%	3,848	0.31%	1,576	0.13%				
1993	75,674	6.19%	62,170	5.09%	7,055	0.58%	4,743	0.39%	1,651	0.14%				
1994	76,077	6.23%	61,490	5.03%	6,983	0.57%	5,527	0.45%	2,025	0.17%				
1995	90,153	7.38%	72,509	5.93%	8,015	0.66%	7,002	0.57%	2,563	0.21%				
1996	73,285	6.00%	59,497	4.87%	7,225	0.59%	4,705	0.39%	1,803	0.15%				
1997	97,071	7.95%	76,791	6.29%	10,093	0.83%	7,682	0.63%	2,454	0.20%				
1998	69,794	5.71%	53,667	4.39%	7,747	0.63%	6,400	0.52%	1,942	0.16%				
1999	80,449	6.58%	54,997	4.50%	10,070	0.82%	11,275	0.92%	4,083	0.33%				
2000	56,394	4.62%	40,624	3.33%	6,808	0.56%	5,715	0.47%	3,223	0.26%				
2001	91,959	7.53%	61,871	5.06%	11,470	0.94%	12,870	1.05%	5,725	0.47%				
2002	31,434	2.57%	20,389	1.67%	5,037	0.41%	4,259	0.35%	1,747	0.14%				
2003	61,843	5.06%	39,353	3.22%	8,892	0.73%	9,658	0.79%	3,933	0.32%				
2004	7,521	0.62%	4,674	0.38%	1,200	0.10%	1,115	0.09%	522	0.04%				
2005	6,192	0.51%	3,837	0.31%	1,136	0.09%	814	0.07%	402	0.03%				
2006	2,501	0.20%	1,517	0.12%	534	0.04%	237	0.02%	204	0.02%				
2007	1,535	0.13%	979	0.08%	324	0.03%	141	0.01%	86	0.01%				
2008	889	0.07%	559	0.05%	201	0.02%	68	0.01%	49	0.00%				
2009	380	0.03%	207	0.02%	77	0.01%	24	0.00%	30	0.00%				
2010	22	0.00%	13	0.00%	4	0.00%	3	0.00%	2	0.00%				
2011	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%				
Total	1,221,740	100.00%	920,917	75.38%	133,655	10.94%	112,682	9.22%	53,509	4.38%				

See note in section a.2.ii "First Re-Test Failures".

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

Year:2009

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
1971	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
1974	6	0.00%	4	0.00%	1	0.00%	0	0.00%	1	0.00%
1975	4	0.00%	4	0.00%	0	0.00%	0	0.00%	0	0.00%
1976	948	0.39%	613	0.25%	64	0.03%	132	0.05%	138	0.06%
1977	1,270	0.52%	776	0.32%	83	0.03%	206	0.08%	204	0.08%
1978	1,446	0.59%	974	0.40%	93	0.04%	164	0.07%	212	0.09%
1979	1,852	0.75%	1,203	0.49%	102	0.04%	347	0.14%	199	0.08%
1980	1,044	0.43%	768	0.31%	63	0.03%	132	0.05%	81	0.03%
1981	1,380	0.56%	1,052	0.43%	98	0.04%	143	0.06%	84	0.03%
1982	1,521	0.62%	1,254	0.51%	98	0.04%	114	0.05%	54	0.02%
1983	2,182	0.89%	1,763	0.72%	142	0.06%	166	0.07%	106	0.04%
1984	4,078	1.66%	3,157	1.29%	294	0.12%	394	0.16%	231	0.09%
1985	5,397	2.20%	4,237	1.73%	414	0.17%	504	0.21%	238	0.10%
1986	6,765	2.76%	5,411	2.20%	571	0.23%	552	0.22%	227	0.09%
1987	8,657	3.53%	7,282	2.97%	591	0.24%	519	0.21%	264	0.11%
1988	9,010	3.67%	7,554	3.08%	587	0.24%	591	0.24%	276	0.11%
1989	11,008	4.48%	9,158	3.73%	745	0.30%	815	0.33%	285	0.12%
1990	12,650	5.15%	10,850	4.42%	788	0.32%	768	0.31%	236	0.10%
1991	14,223	5.79%	12,488	5.09%	928	0.38%	594	0.24%	210	0.09%
1992	13,190	5.37%	11,224	4.57%	872	0.36%	855	0.35%	237	0.10%
1993	19,998	8.14%	17,503	7.13%	1,152	0.47%	1,097	0.45%	243	0.10%
1994	18,890	7.69%	16,308	6.64%	1,064	0.43%	1,253	0.51%	264	0.11%
1995	21,685	8.83%	18,605	7.58%	1,221	0.50%	1,521	0.62%	332	0.14%
1996	17,012	6.93%	14,827	6.04%	1,223	0.50%	731	0.30%	228	0.09%
1997	19,689	8.02%	17,019	6.93%	1,353	0.55%	1,033	0.42%	284	0.12%
1998	13,399	5.46%	11,286	4.60%	1,060	0.43%	819	0.33%	232	0.09%

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

Year:2009

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	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles				
1999	11,882	4.84%	9,148	3.73%	1,194	0.49%	1,148	0.47%	392	0.16%				
2000	7,920	3.23%	6,277	2.56%	774	0.32%	551	0.22%	318	0.13%				
2001	9,339	3.80%	7,003	2.85%	898	0.37%	979	0.40%	458	0.19%				
2002	3,620	1.47%	2,624	1.07%	428	0.17%	417	0.17%	150	0.06%				
2003	4,515	1.84%	3,292	1.34%	551	0.22%	512	0.21%	159	0.06%				
2004	455	0.19%	318	0.13%	60	0.02%	61	0.02%	15	0.01%				
2005	301	0.12%	181	0.07%	67	0.03%	36	0.01%	17	0.01%				
2006	100	0.04%	60	0.02%	32	0.01%	3	0.00%	4	0.00%				
2007	47	0.02%	30	0.01%	12	0.00%	5	0.00%	0	0.00%				
2008	37	0.02%	19	0.01%	12	0.00%	2	0.00%	2	0.00%				
2009	16	0.01%	12	0.00%	1	0.00%	1	0.00%	1	0.00%				
Total	245,537	100.00%	204,285	83.20%	17,636	7.18%	17,165	6.99%	6,382	2.60%				

NOTE: The sum of the ASM Tests count and TSI Tests count do not add up to the All Tests count for each row. The reason is that there were some tests which were neither ASM nor TSI. Less than 0.05% of the total tests fall under this "other" test type category which is not depicted in this table. These "other" test types are official smog tests in which the emissions test was bypassed. These tests were conducted on diesel-powered vehicles where the emissions test was bypassed or they were gasoline-powered vehicles tested at a California Referee station and the emissions test was also bypassed. The Referee stations provide inspection services beyond the scope of the regular California licensed Smog Check stations and are able to bypass certain portions of the test, including the emissions portion. Thus, the test type will be "other" rather than ASM or TSI if the emissions portion of the test was bypassed.

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

Year:2009

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
1967	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	4	0.00%	1	0.00%	1	0.00%	2	0.00%	0	0.00%
1975	11	0.00%	3	0.00%	1	0.00%	4	0.00%	3	0.00%
1976	2,976	0.33%	1,539	0.17%	267	0.03%	586	0.06%	584	0.06%
1977	4,064	0.45%	1,887	0.21%	354	0.04%	908	0.10%	915	0.10%
1978	4,807	0.53%	2,500	0.27%	499	0.05%	809	0.09%	999	0.11%
1979	5,426	0.60%	2,939	0.32%	553	0.06%	946	0.10%	988	0.11%
1980	3,032	0.33%	1,830	0.20%	386	0.04%	405	0.04%	411	0.05%
1981	3,507	0.38%	2,327	0.26%	427	0.05%	309	0.03%	444	0.05%
1982	3,954	0.43%	2,655	0.29%	520	0.06%	364	0.04%	415	0.05%
1983	5,194	0.57%	3,552	0.39%	699	0.08%	461	0.05%	482	0.05%
1984	9,851	1.08%	6,580	0.72%	1,281	0.14%	906	0.10%	1,084	0.12%
1985	12,917	1.42%	8,879	0.97%	1,740	0.19%	1,180	0.13%	1,118	0.12%
1986	17,910	1.96%	12,671	1.39%	2,626	0.29%	1,340	0.15%	1,273	0.14%
1987	21,280	2.33%	15,744	1.73%	2,921	0.32%	1,386	0.15%	1,229	0.13%
1988	24,580	2.70%	18,130	1.99%	3,132	0.34%	1,815	0.20%	1,503	0.16%
1989	31,289	3.43%	23,065	2.53%	3,783	0.41%	2,698	0.30%	1,743	0.19%
1990	36,372	3.99%	27,711	3.04%	4,338	0.48%	2,686	0.29%	1,637	0.18%
1991	41,291	4.53%	32,935	3.61%	5,043	0.55%	1,992	0.22%	1,321	0.14%
1992	39,880	4.37%	30,615	3.36%	4,934	0.54%	2,881	0.32%	1,450	0.16%
1993	51,223	5.62%	40,140	4.40%	6,037	0.66%	3,545	0.39%	1,501	0.16%
1994	53,736	5.89%	41,390	4.54%	6,152	0.67%	4,306	0.47%	1,888	0.21%
1995	64,877	7.12%	49,809	5.46%	7,212	0.79%	5,488	0.60%	2,368	0.26%
1996	52,257	5.73%	40,939	4.49%	5,802	0.64%	3,927	0.43%	1,589	0.17%
1997	72,646	7.97%	55,276	6.06%	8,535	0.94%	6,610	0.72%	2,225	0.24%
1998	54,007	5.92%	40,151	4.40%	6,652	0.73%	5,530	0.61%	1,673	0.18%

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First Re-test Passes

Year:2009

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	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles				
1999	65,918	7.23%	43,479	4.77%	8,818	0.97%	9,841	1.08%	3,780	0.41%				
2000	47,658	5.23%	33,383	3.66%	6,139	0.67%	5,217	0.57%	2,919	0.32%				
2001	78,784	8.64%	51,478	5.65%	10,538	1.16%	11,502	1.26%	5,266	0.58%				
2002	29,200	3.20%	18,458	2.02%	4,773	0.52%	4,242	0.47%	1,727	0.19%				
2003	54,857	6.02%	33,811	3.71%	8,270	0.91%	8,939	0.98%	3,837	0.42%				
2004	6,743	0.74%	4,076	0.45%	1,123	0.12%	1,024	0.11%	517	0.06%				
2005	6,324	0.69%	3,852	0.42%	1,188	0.13%	815	0.09%	468	0.05%				
2006	2,440	0.27%	1,415	0.16%	548	0.06%	250	0.03%	227	0.02%				
2007	1,505	0.17%	916	0.10%	344	0.04%	139	0.02%	106	0.01%				
2008	934	0.10%	583	0.06%	210	0.02%	83	0.01%	57	0.01%				
2009	296	0.03%	193	0.02%	53	0.01%	20	0.00%	30	0.00%				
2010	21	0.00%	12	0.00%	4	0.00%	3	0.00%	2	0.00%				
2011	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%				
Total	911,774	100.00%	654,927	71.83%	115,903	12.71%	93,159	10.22%	47,779	5.24%				

NOTE: The sum of the ASM Tests count and TSI Tests count do not add up to the All Tests count for each row. The reason is that there were some tests which were neither ASM nor TSI. Less than 0.05% of the total tests fall under this "other" test type category which is not depicted in this table. These "other" test types are official smog tests in which the emissions test was bypassed. These tests were conducted on diesel-powered vehicles where the emissions test was bypassed or they were gasoline-powered vehicles tested at a California Referee station and the emissions test was also bypassed. The Referee stations provide inspection services beyond the scope of the regular California licensed Smog Check stations and are able to bypass certain portions of the test, including the emissions portion. Thus, the test type will be "other" rather than ASM or TSI if the emissions portion of the test was bypassed.

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 Second or Later Passes

Year:2009

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
1974	3	0.00%	1	0.00%	1	0.00%	0	0.00%	1	0.00%
1975	3	0.00%	3	0.00%	0	0.00%	0	0.00%	0	0.00%
1976	1,062	0.40%	691	0.26%	57	0.02%	161	0.06%	153	0.06%
1977	1,435	0.54%	915	0.34%	86	0.03%	227	0.09%	207	0.08%
1978	1,610	0.61%	1,108	0.42%	98	0.04%	186	0.07%	218	0.08%
1979	2,047	0.77%	1,336	0.50%	109	0.04%	390	0.15%	212	0.08%
1980	1,119	0.42%	822	0.31%	64	0.02%	139	0.05%	94	0.04%
1981	1,480	0.56%	1,159	0.44%	90	0.03%	141	0.05%	90	0.03%
1982	1,723	0.65%	1,439	0.54%	95	0.04%	128	0.05%	61	0.02%
1983	2,361	0.89%	1,917	0.72%	136	0.05%	177	0.07%	131	0.05%
1984	4,584	1.73%	3,577	1.35%	300	0.11%	455	0.17%	252	0.09%
1985	5,884	2.21%	4,662	1.75%	384	0.14%	582	0.22%	256	0.10%
1986	7,404	2.79%	5,944	2.24%	570	0.21%	623	0.23%	267	0.10%
1987	9,419	3.54%	7,933	2.99%	613	0.23%	587	0.22%	286	0.11%
1988	9,768	3.68%	8,200	3.09%	590	0.22%	662	0.25%	316	0.12%
1989	12,096	4.55%	10,034	3.78%	792	0.30%	961	0.36%	309	0.12%
1990	14,003	5.27%	12,047	4.53%	805	0.30%	877	0.33%	274	0.10%
1991	15,857	5.97%	13,923	5.24%	1,002	0.38%	702	0.26%	230	0.09%
1992	14,921	5.62%	12,697	4.78%	944	0.36%	1,008	0.38%	272	0.10%
1993	22,131	8.33%	19,234	7.24%	1,277	0.48%	1,337	0.50%	283	0.11%
1994	20,847	7.85%	17,885	6.73%	1,136	0.43%	1,506	0.57%	320	0.12%
1995	24,564	9.24%	20,913	7.87%	1,349	0.51%	1,916	0.72%	386	0.15%
1996	17,166	6.46%	15,053	5.67%	1,063	0.40%	797	0.30%	253	0.10%
1997	21,060	7.93%	18,201	6.85%	1,383	0.52%	1,163	0.44%	313	0.12%
1998	14,136	5.32%	11,931	4.49%	1,046	0.39%	897	0.34%	258	0.10%
1999	12,401	4.67%	9,632	3.63%	1,190	0.45%	1,182	0.44%	397	0.15%

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Second or Later Passes

Year:2009

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
2000	8,006	3.01%	6,352	2.39%	771	0.29%	568	0.21%	315	0.12%
2001	9,268	3.49%	6,953	2.62%	904	0.34%	988	0.37%	423	0.16%
2002	3,848	1.45%	2,782	1.05%	449	0.17%	446	0.17%	171	0.06%
2003	4,549	1.71%	3,298	1.24%	566	0.21%	535	0.20%	150	0.06%
2004	448	0.17%	313	0.12%	56	0.02%	61	0.02%	18	0.01%
2005	300	0.11%	177	0.07%	67	0.03%	36	0.01%	20	0.01%
2006	105	0.04%	66	0.02%	32	0.01%	5	0.00%	2	0.00%
2007	43	0.02%	27	0.01%	10	0.00%	5	0.00%	1	0.00%
2008	39	0.01%	21	0.01%	10	0.00%	6	0.00%	2	0.00%
2009	15	0.01%	12	0.00%	1	0.00%	1	0.00%	1	0.00%
Total	265,705	100.00%	221,258	83.27%	18,046	6.79%	19,455	7.32%	6,942	2.61%

NOTE: The sum of the ASM Tests count and TSI Tests count do not add up to the All Tests count for each row. The reason is that there were some tests which were neither ASM nor TSI. Less than 0.05% of the total tests fall under this "other" test type category which is not depicted in this table. These "other" test types are official smog tests in which the emissions test was bypassed. These tests were conducted on diesel-powered vehicles where the emissions test was bypassed or they were gasoline-powered vehicles tested at a California Referee station and the emissions test was also bypassed. The Referee stations provide inspection services beyond the scope of the regular California licensed Smog Check stations and are able to bypass certain portions of the test, including the emissions portion. Thus, the test type will be "other" rather than ASM or TSI if the emissions portion of the test was bypassed.

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Vehicles Receiving a Repair Cost Waiver or Hardship Extension

Year:2009

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	7	0.16%	6	0.13%	0	0.00%	1	0.02%	0	0.00%
1977	11	0.25%	4	0.09%	1	0.02%	2	0.04%	4	0.09%
1978	11	0.25%	7	0.16%	2	0.04%	1	0.02%	1	0.02%
1979	15	0.34%	13	0.29%	0	0.00%	1	0.02%	1	0.02%
1980	16	0.36%	12	0.27%	0	0.00%	4	0.09%	0	0.00%
1981	28	0.63%	22	0.49%	0	0.00%	4	0.09%	2	0.04%
1982	21	0.47%	18	0.40%	2	0.04%	1	0.02%	0	0.00%
1983	35	0.78%	29	0.65%	3	0.07%	2	0.04%	1	0.02%
1984	67	1.50%	56	1.25%	4	0.09%	6	0.13%	1	0.02%
1985	85	1.90%	68	1.52%	10	0.22%	6	0.13%	1	0.02%
1986	116	2.60%	98	2.20%	10	0.22%	4	0.09%	4	0.09%
1987	131	2.94%	119	2.67%	5	0.11%	6	0.13%	1	0.02%
1988	126	2.82%	109	2.44%	9	0.20%	7	0.16%	1	0.02%
1989	177	3.97%	152	3.41%	11	0.25%	9	0.20%	5	0.11%
1990	178	3.99%	149	3.34%	10	0.22%	17	0.38%	2	0.04%
1991	212	4.75%	190	4.26%	15	0.34%	6	0.13%	1	0.02%
1992	199	4.46%	180	4.03%	10	0.22%	8	0.18%	1	0.02%
1993	319	7.15%	286	6.41%	27	0.60%	6	0.13%	0	0.00%
1994	280	6.27%	243	5.44%	20	0.45%	14	0.31%	3	0.07%
1995	314	7.04%	284	6.36%	20	0.45%	7	0.16%	3	0.07%
1996	460	10.31%	404	9.05%	38	0.85%	15	0.34%	3	0.07%
1997	438	9.81%	378	8.47%	38	0.85%	18	0.40%	4	0.09%
1998	335	7.51%	285	6.39%	29	0.65%	15	0.34%	6	0.13%
1999	277	6.21%	213	4.77%	39	0.87%	21	0.47%	4	0.09%

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Vehicles Receiving a Repair Cost Waiver or Hardship Extension

Year:2009

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	218	4.88%	170	3.81%	31	0.69%	10	0.22%	7	0.16%
2001	213	4.77%	182	4.08%	11	0.25%	15	0.34%	5	0.11%
2002	94	2.11%	62	1.39%	18	0.40%	9	0.20%	5	0.11%
2003	80	1.79%	66	1.48%	7	0.16%	6	0.13%	1	0.02%
Total	4,463	100.00%	3,805	85.26%	370	8.29%	221	4.95%	67	1.50%

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

Year:2009

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
1964	2	0.00%	0	0.00%	2	0.00%	0	0.00%	0	0.00%
1965	3	0.00%	0	0.00%	3	0.00%	0	0.00%	0	0.00%
1966	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
1969	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
1970	3	0.00%	3	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%
1972	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
1973	3	0.00%	2	0.00%	1	0.00%	0	0.00%	0	0.00%
1974	8	0.00%	7	0.00%	1	0.00%	0	0.00%	0	0.00%
1975	12	0.01%	7	0.00%	1	0.00%	1	0.00%	3	0.00%
1976	849	0.50%	444	0.26%	76	0.04%	135	0.08%	187	0.11%
1977	1,125	0.66%	535	0.31%	94	0.06%	221	0.13%	268	0.16%
1978	1,371	0.81%	771	0.45%	130	0.08%	182	0.11%	285	0.17%
1979	1,586	0.93%	910	0.53%	138	0.08%	283	0.17%	250	0.15%
1980	943	0.55%	608	0.36%	105	0.06%	116	0.07%	108	0.06%
1981	1,177	0.69%	790	0.46%	163	0.10%	105	0.06%	117	0.07%
1982	1,446	0.85%	1,055	0.62%	179	0.11%	113	0.07%	97	0.06%
1983	1,926	1.13%	1,403	0.82%	236	0.14%	151	0.09%	128	0.08%
1984	3,634	2.14%	2,593	1.52%	466	0.27%	333	0.20%	233	0.14%
1985	4,692	2.76%	3,416	2.01%	577	0.34%	428	0.25%	259	0.15%
1986	5,916	3.48%	4,515	2.65%	705	0.41%	444	0.26%	240	0.14%
1987	7,286	4.28%	5,788	3.40%	840	0.49%	397	0.23%	249	0.15%
1988	7,920	4.66%	6,287	3.70%	869	0.51%	446	0.26%	304	0.18%
1989	8,935	5.25%	7,105	4.18%	939	0.55%	601	0.35%	278	0.16%

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

Year:2009

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	Count	Percent of All Vehicles	Count	Percent of All Vehicles	Count	Percent of All Vehicles				
1990	9,699	5.70%	7,929	4.66%	973	0.57%	556	0.33%	231	0.14%				
1991	9,950	5.85%	8,315	4.89%	1,102	0.65%	337	0.20%	179	0.11%				
1992	8,934	5.25%	7,276	4.28%	1,002	0.59%	456	0.27%	182	0.11%				
1993	11,174	6.57%	9,228	5.42%	1,193	0.70%	544	0.32%	195	0.11%				
1994	10,489	6.17%	8,590	5.05%	1,051	0.62%	611	0.36%	222	0.13%				
1995	11,267	6.62%	9,217	5.42%	1,096	0.64%	678	0.40%	261	0.15%				
1996	11,210	6.59%	9,213	5.42%	1,193	0.70%	576	0.34%	211	0.12%				
1997	11,692	6.87%	9,296	5.46%	1,374	0.81%	756	0.44%	254	0.15%				
1998	8,480	4.99%	6,592	3.88%	1,006	0.59%	648	0.38%	224	0.13%				
1999	7,653	4.50%	5,364	3.15%	1,024	0.60%	964	0.57%	297	0.17%				
2000	5,880	3.46%	4,391	2.58%	705	0.41%	484	0.28%	290	0.17%				
2001	6,628	3.90%	4,747	2.79%	830	0.49%	713	0.42%	334	0.20%				
2002	2,889	1.70%	1,930	1.13%	463	0.27%	347	0.20%	148	0.09%				
2003	3,717	2.19%	2,538	1.49%	529	0.31%	441	0.26%	207	0.12%				
2004	595	0.35%	396	0.23%	91	0.05%	72	0.04%	32	0.02%				
2005	410	0.24%	281	0.17%	63	0.04%	45	0.03%	20	0.01%				
2006	300	0.18%	193	0.11%	56	0.03%	21	0.01%	22	0.01%				
2007	141	0.08%	97	0.06%	28	0.02%	7	0.00%	5	0.00%				
2008	79	0.05%	41	0.02%	25	0.01%	3	0.00%	3	0.00%				
2009	78	0.05%	16	0.01%	24	0.01%	2	0.00%	1	0.00%				
2010	1	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%				
Total	170,107	100.00%	131,893	77.54%	19,354	11.38%	12,217	7.18%	6,324	3.72%				

See note in section a.2.ii "First Re-Test Failures".

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

Year:2009

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	337,437	5.20%	200,951	3.10%	93,173	1.44%	31,668	0.49%	11,645	0.18%
1997	623,159	9.61%	358,445	5.53%	182,339	2.81%	61,828	0.95%	20,547	0.32%
1998	481,651	7.43%	270,102	4.17%	146,731	2.26%	53,280	0.82%	11,538	0.18%
1999	852,084	13.14%	456,570	7.04%	230,263	3.55%	132,651	2.05%	32,600	0.50%
2000	514,580	7.94%	283,788	4.38%	138,534	2.14%	73,293	1.13%	18,965	0.29%
2001	1,229,513	18.96%	653,613	10.08%	319,188	4.92%	213,370	3.29%	43,342	0.67%
2002	423,260	6.53%	234,395	3.62%	105,302	1.62%	69,714	1.08%	13,849	0.21%
2003	1,395,824	21.53%	747,507	11.53%	330,752	5.10%	267,184	4.12%	50,381	0.78%
2004	213,842	3.30%	118,338	1.83%	48,808	0.75%	40,159	0.62%	6,537	0.10%
2005	186,664	2.88%	109,272	1.69%	40,203	0.62%	31,977	0.49%	5,212	0.08%
2006	85,954	1.33%	52,229	0.81%	16,979	0.26%	14,552	0.22%	2,194	0.03%
2007	58,975	0.91%	36,355	0.56%	11,557	0.18%	9,755	0.15%	1,308	0.02%
2008	58,719	0.91%	37,565	0.58%	11,621	0.18%	7,926	0.12%	1,607	0.02%
2009	20,382	0.31%	13,414	0.21%	3,442	0.05%	2,399	0.04%	1,127	0.02%
2010	1,820	0.03%	1,166	0.02%	369	0.01%	259	0.00%	26	0.00%
Total	6,483,864	100.00%	3,573,710	55.12%	1,679,261	25.90%	1,010,015	15.58%	220,878	3.41%

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

Year:2009

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	49,011	10.94%	29,630	6.61%	14,384	3.21%	3,818	0.85%	1,179	0.26%
1997	66,078	14.75%	36,596	8.17%	21,144	4.72%	6,570	1.47%	1,768	0.39%
1998	50,659	11.31%	27,610	6.16%	15,836	3.54%	6,104	1.36%	1,109	0.25%
1999	61,993	13.84%	32,834	7.33%	15,745	3.51%	11,008	2.46%	2,406	0.54%
2000	45,710	10.20%	25,888	5.78%	11,780	2.63%	6,723	1.50%	1,319	0.29%
2001	78,864	17.61%	39,661	8.85%	22,126	4.94%	14,676	3.28%	2,401	0.54%
2002	26,815	5.99%	14,230	3.18%	7,136	1.59%	4,634	1.03%	815	0.18%
2003	52,953	11.82%	28,147	6.28%	12,697	2.83%	10,112	2.26%	1,997	0.45%
2004	6,231	1.39%	3,492	0.78%	1,327	0.30%	1,197	0.27%	215	0.05%
2005	5,289	1.18%	3,024	0.68%	1,182	0.26%	932	0.21%	151	0.03%
2006	2,069	0.46%	1,220	0.27%	450	0.10%	339	0.08%	60	0.01%
2007	1,316	0.29%	820	0.18%	286	0.06%	193	0.04%	17	0.00%
2008	702	0.16%	466	0.10%	139	0.03%	85	0.02%	12	0.00%
2009	253	0.06%	163	0.04%	39	0.01%	30	0.01%	21	0.00%
2010	19	0.00%	10	0.00%	4	0.00%	5	0.00%	0	0.00%
2011	1	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%
Total	447,963	100.00%	243,792	54.42%	124,275	27.74%	66,426	14.83%	13,470	3.01%

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
Year:2009

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	324,390	6.01%	201,750	3.73%	162,404	5.14%	18,742	0.59%	13,368	0.42%	7,236	0.23%
1997	567,644	10.51%	340,151	6.30%	292,629	9.26%	24,876	0.79%	15,406	0.49%	7,240	0.23%
1998	435,908	8.07%	253,567	4.69%	220,803	6.99%	19,375	0.61%	8,658	0.27%	4,731	0.15%
1999	718,548	13.30%	399,464	7.39%	365,339	11.56%	23,078	0.73%	7,081	0.22%	3,966	0.13%
2000	439,560	8.14%	261,104	4.83%	234,456	7.42%	19,434	0.61%	4,321	0.14%	2,893	0.09%
2001	1,023,711	18.95%	579,491	10.73%	541,158	17.12%	30,717	0.97%	4,544	0.14%	3,072	0.10%
2002	336,996	6.24%	200,058	3.70%	186,621	5.90%	10,726	0.34%	1,675	0.05%	1,036	0.03%
2003	1,085,740	20.10%	625,734	11.58%	599,711	18.98%	22,295	0.71%	2,420	0.08%	1,308	0.04%
2004	164,357	3.04%	98,374	1.82%	95,152	3.01%	2,690	0.09%	368	0.01%	164	0.01%
2005	142,843	2.64%	89,466	1.66%	86,824	2.75%	2,339	0.07%	241	0.01%	62	0.00%
2006	63,152	1.17%	41,632	0.77%	40,605	1.28%	908	0.03%	98	0.00%	21	0.00%
2007	42,120	0.78%	28,739	0.53%	28,043	0.89%	629	0.02%	60	0.00%	7	0.00%
2008	42,388	0.78%	30,128	0.56%	29,731	0.94%	358	0.01%	34	0.00%	5	0.00%
2009	13,602	0.25%	10,144	0.19%	9,991	0.32%	132	0.00%	19	0.00%	2	0.00%
2010	1,013	0.02%	714	0.01%	706	0.02%	8	0.00%	0	0.00%	0	0.00%
2011	1	0.00%	1	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
Total	5,401,973	100.00%	3,160,517	58.51%	2,894,173	91.57%	176,308	5.58%	58,293	1.84%	31,743	1.00%

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
Year:2009

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	324,390	6.01%	88,472	1.64%	70,861	5.23%	9,449	0.70%	5,250	0.39%	2,912	0.22%
1997	567,644	10.51%	161,179	2.98%	136,085	10.05%	13,940	1.03%	7,578	0.56%	3,576	0.26%
1998	435,908	8.07%	129,171	2.39%	111,132	8.21%	10,618	0.78%	5,122	0.38%	2,299	0.17%
1999	718,548	13.30%	193,720	3.59%	176,530	13.04%	11,495	0.85%	4,065	0.30%	1,630	0.12%
2000	439,560	8.14%	115,458	2.14%	103,905	7.67%	8,466	0.63%	2,065	0.15%	1,022	0.08%
2001	1,023,711	18.95%	259,899	4.81%	240,658	17.78%	16,686	1.23%	1,319	0.10%	1,236	0.09%
2002	336,996	6.24%	79,522	1.47%	73,904	5.46%	4,884	0.36%	382	0.03%	352	0.03%
2003	1,085,740	20.10%	236,355	4.38%	225,984	16.69%	9,219	0.68%	621	0.05%	531	0.04%
2004	164,357	3.04%	34,037	0.63%	32,977	2.44%	934	0.07%	99	0.01%	27	0.00%
2005	142,843	2.64%	28,199	0.52%	27,303	2.02%	809	0.06%	63	0.00%	24	0.00%
2006	63,152	1.17%	11,762	0.22%	11,415	0.84%	313	0.02%	29	0.00%	5	0.00%
2007	42,120	0.78%	7,214	0.13%	7,015	0.52%	190	0.01%	8	0.00%	1	0.00%
2008	42,388	0.78%	6,727	0.12%	6,630	0.49%	82	0.01%	14	0.00%	1	0.00%
2009	13,602	0.25%	1,948	0.04%	1,924	0.14%	22	0.00%	1	0.00%	1	0.00%
2010	1,013	0.02%	152	0.00%	149	0.01%	3	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	5,401,973	100.00%	1,353,815	25.06%	1,226,472	90.59%	87,110	6.43%	26,616	1.97%	13,617	1.01%

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
Year:2009

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	324,390	6.01%	27,701	0.51%	24,073	3.17%	2,649	0.35%	587	0.08%	392	0.05%
1997	567,644	10.51%	54,999	1.02%	48,907	6.44%	4,882	0.64%	634	0.08%	576	0.08%
1998	435,908	8.07%	46,597	0.86%	41,166	5.42%	4,579	0.60%	397	0.05%	455	0.06%
1999	718,548	13.30%	106,899	1.98%	97,640	12.87%	8,165	1.08%	556	0.07%	538	0.07%
2000	439,560	8.14%	51,538	0.95%	46,934	6.18%	4,180	0.55%	182	0.02%	242	0.03%
2001	1,023,711	18.95%	156,349	2.89%	145,743	19.21%	10,156	1.34%	199	0.03%	251	0.03%
2002	336,996	6.24%	49,166	0.91%	45,711	6.02%	3,233	0.43%	88	0.01%	134	0.02%
2003	1,085,740	20.10%	194,355	3.60%	186,613	24.59%	7,299	0.96%	214	0.03%	229	0.03%
2004	164,357	3.04%	28,445	0.53%	27,546	3.63%	834	0.11%	40	0.01%	25	0.00%
2005	142,843	2.64%	22,471	0.42%	21,790	2.87%	650	0.09%	18	0.00%	13	0.00%
2006	63,152	1.17%	8,799	0.16%	8,609	1.13%	179	0.02%	6	0.00%	5	0.00%
2007	42,120	0.78%	5,564	0.10%	5,443	0.72%	120	0.02%	1	0.00%	0	0.00%
2008	42,388	0.78%	4,711	0.09%	4,662	0.61%	47	0.01%	1	0.00%	1	0.00%
2009	13,602	0.25%	1,115	0.02%	1,097	0.14%	18	0.00%	0	0.00%	0	0.00%
2010	1,013	0.02%	136	0.00%	133	0.02%	3	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	5,401,973	100.00%	758,845	14.05%	706,067	93.04%	46,994	6.19%	2,923	0.39%	2,861	0.38%

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
Year:2009

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	324,390	6.01%	6,467	0.12%	5,648	4.39%	664	0.52%	92	0.07%	63	0.05%
1997	567,644	10.51%	11,315	0.21%	10,084	7.83%	1,023	0.79%	150	0.12%	58	0.05%
1998	435,908	8.07%	6,573	0.12%	5,856	4.55%	620	0.48%	49	0.04%	48	0.04%
1999	718,548	13.30%	18,465	0.34%	16,988	13.19%	1,333	1.03%	65	0.05%	79	0.06%
2000	439,560	8.14%	11,460	0.21%	10,617	8.24%	768	0.60%	43	0.03%	32	0.02%
2001	1,023,711	18.95%	27,972	0.52%	26,434	20.52%	1,451	1.13%	52	0.04%	35	0.03%
2002	336,996	6.24%	8,250	0.15%	7,687	5.97%	525	0.41%	22	0.02%	16	0.01%
2003	1,085,740	20.10%	29,296	0.54%	28,096	21.81%	1,137	0.88%	33	0.03%	30	0.02%
2004	164,357	3.04%	3,501	0.06%	3,388	2.63%	106	0.08%	4	0.00%	3	0.00%
2005	142,843	2.64%	2,707	0.05%	2,633	2.04%	69	0.05%	2	0.00%	3	0.00%
2006	63,152	1.17%	959	0.02%	932	0.72%	27	0.02%	0	0.00%	0	0.00%
2007	42,120	0.78%	603	0.01%	589	0.46%	14	0.01%	0	0.00%	0	0.00%
2008	42,388	0.78%	822	0.02%	816	0.63%	6	0.00%	0	0.00%	0	0.00%
2009	13,602	0.25%	395	0.01%	389	0.30%	6	0.00%	0	0.00%	0	0.00%
2010	1,013	0.02%	11	0.00%	11	0.01%	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	5,401,973	100.00%	128,796	2.38%	120,168	93.30%	7,749	6.02%	512	0.40%	367	0.28%

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
Year:2009

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	62,057	4.06%	28,831	1.88%	24,569	3.74%	3,343	0.51%	610	0.09%	309	0.05%
1997	121,592	7.95%	54,890	3.59%	49,755	7.57%	4,097	0.62%	655	0.10%	383	0.06%
1998	96,393	6.30%	44,144	2.89%	40,278	6.13%	3,284	0.50%	363	0.06%	219	0.03%
1999	195,521	12.78%	89,940	5.88%	83,641	12.73%	5,396	0.82%	509	0.08%	394	0.06%
2000	120,718	7.89%	48,569	3.18%	44,723	6.81%	3,365	0.51%	287	0.04%	194	0.03%
2001	284,648	18.61%	113,781	7.44%	107,632	16.38%	5,683	0.87%	277	0.04%	189	0.03%
2002	113,071	7.39%	48,567	3.18%	45,938	6.99%	2,355	0.36%	161	0.02%	113	0.02%
2003	363,015	23.73%	149,919	9.80%	145,090	22.09%	4,331	0.66%	285	0.04%	213	0.03%
2004	55,681	3.64%	23,450	1.53%	22,761	3.46%	623	0.09%	51	0.01%	15	0.00%
2005	49,084	3.21%	22,828	1.49%	22,153	3.37%	605	0.09%	52	0.01%	18	0.00%
2006	24,836	1.62%	11,813	0.77%	11,483	1.75%	284	0.04%	39	0.01%	7	0.00%
2007	18,151	1.19%	8,433	0.55%	8,234	1.25%	184	0.03%	15	0.00%	0	0.00%
2008	17,006	1.11%	7,896	0.52%	7,787	1.19%	101	0.02%	7	0.00%	1	0.00%
2009	7,027	0.46%	3,431	0.22%	3,397	0.52%	29	0.00%	5	0.00%	0	0.00%
2010	826	0.05%	462	0.03%	459	0.07%	2	0.00%	1	0.00%	0	0.00%
Total	1,529,626	100.00%	656,954	42.95%	617,900	94.06%	33,682	5.13%	3,317	0.50%	2,055	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 - Light Duty Trucks
Year:2009

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	62,057	4.06%	19,085	1.25%	16,797	3.74%	1,848	0.41%	265	0.06%	175	0.04%
1997	121,592	7.95%	42,303	2.77%	38,306	8.52%	3,329	0.74%	370	0.08%	298	0.07%
1998	96,393	6.30%	33,395	2.18%	30,224	6.72%	2,698	0.60%	252	0.06%	221	0.05%
1999	195,521	12.78%	52,287	3.42%	49,480	11.00%	2,507	0.56%	188	0.04%	112	0.02%
2000	120,718	7.89%	34,856	2.28%	32,461	7.22%	2,169	0.48%	103	0.02%	123	0.03%
2001	284,648	18.61%	81,415	5.32%	77,125	17.15%	4,119	0.92%	86	0.02%	85	0.02%
2002	113,071	7.39%	32,915	2.15%	30,982	6.89%	1,861	0.41%	33	0.01%	39	0.01%
2003	363,015	23.73%	107,094	7.00%	104,102	23.15%	2,874	0.64%	45	0.01%	73	0.02%
2004	55,681	3.64%	16,098	1.05%	15,723	3.50%	359	0.08%	9	0.00%	7	0.00%
2005	49,084	3.21%	13,186	0.86%	12,834	2.85%	347	0.08%	3	0.00%	2	0.00%
2006	24,836	1.62%	5,667	0.37%	5,535	1.23%	132	0.03%	0	0.00%	0	0.00%
2007	18,151	1.19%	4,628	0.30%	4,532	1.01%	95	0.02%	1	0.00%	0	0.00%
2008	17,006	1.11%	5,033	0.33%	4,977	1.11%	56	0.01%	0	0.00%	0	0.00%
2009	7,027	0.46%	1,532	0.10%	1,516	0.34%	16	0.00%	0	0.00%	0	0.00%
2010	826	0.05%	221	0.01%	220	0.05%	1	0.00%	0	0.00%	0	0.00%
Total	1,529,626	100.00%	449,715	29.40%	424,814	94.46%	22,411	4.98%	1,355	0.30%	1,135	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 - Medium Duty Trucks
Year:2009

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	62,057	4.06%	7,784	0.51%	6,860	2.16%	684	0.22%	147	0.05%	93	0.03%
1997	121,592	7.95%	13,399	0.88%	12,174	3.83%	998	0.31%	113	0.04%	114	0.04%
1998	96,393	6.30%	12,786	0.84%	11,632	3.66%	962	0.30%	84	0.03%	108	0.03%
1999	195,521	12.78%	36,754	2.40%	34,353	10.82%	2,202	0.69%	96	0.03%	103	0.03%
2000	120,718	7.89%	28,478	1.86%	26,118	8.22%	2,225	0.70%	59	0.02%	76	0.02%
2001	284,648	18.61%	71,696	4.69%	67,372	21.21%	4,219	1.33%	55	0.02%	50	0.02%
2002	113,071	7.39%	25,182	1.65%	23,893	7.52%	1,243	0.39%	22	0.01%	24	0.01%
2003	363,015	23.73%	82,940	5.42%	80,314	25.29%	2,508	0.79%	42	0.01%	76	0.02%
2004	55,681	3.64%	12,909	0.84%	12,564	3.96%	336	0.11%	7	0.00%	2	0.00%
2005	49,084	3.21%	10,437	0.68%	10,161	3.20%	269	0.08%	7	0.00%	0	0.00%
2006	24,836	1.62%	6,092	0.40%	5,935	1.87%	155	0.05%	2	0.00%	0	0.00%
2007	18,151	1.19%	4,383	0.29%	4,310	1.36%	73	0.02%	0	0.00%	0	0.00%
2008	17,006	1.11%	3,297	0.22%	3,260	1.03%	37	0.01%	0	0.00%	0	0.00%
2009	7,027	0.46%	1,314	0.09%	1,302	0.41%	12	0.00%	0	0.00%	0	0.00%
2010	826	0.05%	128	0.01%	126	0.04%	2	0.00%	0	0.00%	0	0.00%
Total	1,529,626	100.00%	317,579	20.76%	300,374	94.58%	15,925	5.01%	634	0.20%	646	0.20%

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
Year:2009

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	62,057	4.06%	6,357	0.42%	5,663	5.37%	405	0.38%	242	0.23%	47	0.04%
1997	121,592	7.95%	11,000	0.72%	9,970	9.46%	631	0.60%	343	0.33%	56	0.05%
1998	96,393	6.30%	6,068	0.40%	5,406	5.13%	392	0.37%	222	0.21%	48	0.05%
1999	195,521	12.78%	16,540	1.08%	15,209	14.43%	920	0.87%	337	0.32%	74	0.07%
2000	120,718	7.89%	8,815	0.58%	8,134	7.72%	476	0.45%	163	0.15%	42	0.04%
2001	284,648	18.61%	17,756	1.16%	16,714	15.86%	886	0.84%	127	0.12%	29	0.03%
2002	113,071	7.39%	6,407	0.42%	6,072	5.76%	264	0.25%	61	0.06%	10	0.01%
2003	363,015	23.73%	23,062	1.51%	22,147	21.02%	816	0.77%	85	0.08%	14	0.01%
2004	55,681	3.64%	3,224	0.21%	3,107	2.95%	101	0.10%	13	0.01%	3	0.00%
2005	49,084	3.21%	2,633	0.17%	2,548	2.42%	78	0.07%	7	0.01%	0	0.00%
2006	24,836	1.62%	1,264	0.08%	1,229	1.17%	33	0.03%	2	0.00%	0	0.00%
2007	18,151	1.19%	707	0.05%	704	0.67%	3	0.00%	0	0.00%	0	0.00%
2008	17,006	1.11%	780	0.05%	774	0.73%	5	0.00%	1	0.00%	0	0.00%
2009	7,027	0.46%	750	0.05%	735	0.70%	15	0.01%	0	0.00%	0	0.00%
2010	826	0.05%	15	0.00%	15	0.01%	0	0.00%	0	0.00%	0	0.00%
Total	1,529,626	100.00%	105,378	6.89%	98,427	93.40%	5,025	4.77%	1,603	1.52%	323	0.31%

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
 Year:2009

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	Count	Percent of Passenger Cars	Count	Percent of Passenger Cars	Count	Percent of Passenger Cars
1996	382,202	5.66%	227,352	3.37%	197,676	5.37%	27,559	0.75%	753	0.02%	1,364	0.04%
1997	679,183	10.05%	386,985	5.73%	350,206	9.51%	34,149	0.93%	991	0.03%	1,639	0.04%
1998	524,304	7.76%	291,081	4.31%	263,303	7.15%	25,662	0.70%	719	0.02%	1,397	0.04%
1999	899,905	13.32%	477,435	7.07%	444,664	12.08%	30,617	0.83%	777	0.02%	1,377	0.04%
2000	546,840	8.10%	299,781	4.44%	274,146	7.45%	23,971	0.65%	518	0.01%	1,146	0.03%
2001	1,275,908	18.89%	667,931	9.89%	628,802	17.08%	36,739	1.00%	900	0.02%	1,490	0.04%
2002	434,691	6.44%	237,408	3.51%	223,357	6.07%	13,071	0.35%	403	0.01%	577	0.02%
2003	1,406,132	20.82%	742,204	10.99%	714,179	19.40%	26,089	0.71%	957	0.03%	979	0.03%
2004	208,655	3.09%	114,473	1.69%	111,052	3.02%	3,160	0.09%	151	0.00%	110	0.00%
2005	183,342	2.71%	105,793	1.57%	102,797	2.79%	2,754	0.07%	154	0.00%	88	0.00%
2006	82,431	1.22%	49,184	0.73%	47,987	1.30%	1,106	0.03%	55	0.00%	36	0.00%
2007	56,224	0.83%	34,085	0.50%	33,297	0.90%	731	0.02%	46	0.00%	11	0.00%
2008	55,610	0.82%	35,419	0.52%	34,961	0.95%	415	0.01%	39	0.00%	4	0.00%
2009	18,225	0.27%	12,224	0.18%	12,069	0.33%	144	0.00%	10	0.00%	1	0.00%
2010	1,298	0.02%	807	0.01%	801	0.02%	5	0.00%	1	0.00%	0	0.00%
2011	1	0.00%	1	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
Total	6,754,951	100.00%	3,682,163	54.51%	3,439,297	93.40%	226,173	6.14%	6,474	0.18%	10,219	0.28%

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
Year:2009

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	Count	Percent of Light Duty Trucks	Count	Percent of Light Duty Trucks	Count	Percent of Light Duty Trucks
1996	382,202	5.66%	106,936	1.58%	92,282	5.17%	13,264	0.74%	430	0.02%	960	0.05%
1997	679,183	10.05%	202,341	3.00%	180,640	10.12%	19,540	1.10%	786	0.04%	1,375	0.08%
1998	524,304	7.76%	161,962	2.40%	145,787	8.17%	14,676	0.82%	485	0.03%	1,014	0.06%
1999	899,905	13.32%	245,221	3.63%	229,053	12.84%	14,725	0.83%	555	0.03%	888	0.05%
2000	546,840	8.10%	148,494	2.20%	136,559	7.65%	10,863	0.61%	345	0.02%	727	0.04%
2001	1,275,908	18.89%	338,238	5.01%	315,895	17.70%	20,602	1.15%	533	0.03%	1,208	0.07%
2002	434,691	6.44%	110,113	1.63%	102,967	5.77%	6,503	0.36%	193	0.01%	450	0.03%
2003	1,406,132	20.82%	339,495	5.03%	326,453	18.30%	11,407	0.64%	585	0.03%	1,050	0.06%
2004	208,655	3.09%	48,056	0.71%	46,709	2.62%	1,209	0.07%	76	0.00%	62	0.00%
2005	183,342	2.71%	40,468	0.60%	39,276	2.20%	1,107	0.06%	56	0.00%	29	0.00%
2006	82,431	1.22%	16,957	0.25%	16,487	0.92%	425	0.02%	31	0.00%	14	0.00%
2007	56,224	0.83%	11,403	0.17%	11,120	0.62%	269	0.02%	9	0.00%	5	0.00%
2008	55,610	0.82%	11,271	0.17%	11,141	0.62%	122	0.01%	5	0.00%	3	0.00%
2009	18,225	0.27%	3,004	0.04%	2,964	0.17%	35	0.00%	5	0.00%	0	0.00%
2010	1,298	0.02%	285	0.00%	281	0.02%	4	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	6,754,951	100.00%	1,784,244	26.41%	1,657,614	92.90%	114,751	6.43%	4,094	0.23%	7,785	0.44%

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
Year:2009

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	Count	Percent of Medium Duty Trucks	Count	Percent of Medium Duty Trucks	Count	Percent of Medium Duty Trucks
1996	382,202	5.66%	35,302	0.52%	31,377	2.96%	3,503	0.33%	132	0.01%	290	0.03%
1997	679,183	10.05%	68,102	1.01%	61,437	5.80%	6,145	0.58%	146	0.01%	374	0.04%
1998	524,304	7.76%	58,936	0.87%	52,783	4.98%	5,750	0.54%	105	0.01%	298	0.03%
1999	899,905	13.32%	142,797	2.11%	131,668	12.43%	10,491	0.99%	215	0.02%	423	0.04%
2000	546,840	8.10%	78,735	1.17%	71,994	6.80%	6,303	0.59%	142	0.01%	296	0.03%
2001	1,275,908	18.89%	224,856	3.33%	210,046	19.83%	13,682	1.29%	371	0.04%	757	0.07%
2002	434,691	6.44%	72,909	1.08%	68,244	6.44%	4,255	0.40%	112	0.01%	298	0.03%
2003	1,406,132	20.82%	273,039	4.04%	262,870	24.81%	9,323	0.88%	270	0.03%	576	0.05%
2004	208,655	3.09%	39,684	0.59%	38,464	3.63%	1,095	0.10%	71	0.01%	54	0.01%
2005	183,342	2.71%	31,920	0.47%	30,978	2.92%	864	0.08%	50	0.00%	28	0.00%
2006	82,431	1.22%	14,146	0.21%	13,811	1.30%	313	0.03%	14	0.00%	8	0.00%
2007	56,224	0.83%	9,472	0.14%	9,283	0.88%	177	0.02%	6	0.00%	6	0.00%
2008	55,610	0.82%	7,407	0.11%	7,318	0.69%	78	0.01%	10	0.00%	1	0.00%
2009	18,225	0.27%	1,939	0.03%	1,915	0.18%	24	0.00%	0	0.00%	0	0.00%
2010	1,298	0.02%	185	0.00%	181	0.02%	4	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	6,754,951	100.00%	1,059,429	15.68%	992,369	93.67%	62,007	5.85%	1,644	0.16%	3,409	0.32%

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
Year:2009

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	Count	Percent of Heavy Duty Trucks	Count	Percent of Heavy Duty Trucks	Count	Percent of Heavy Duty Trucks
1996	382,202	5.66%	12,612	0.19%	11,402	4.98%	1,076	0.47%	49	0.02%	85	0.04%
1997	679,183	10.05%	21,755	0.32%	19,944	8.70%	1,612	0.70%	74	0.03%	125	0.05%
1998	524,304	7.76%	12,325	0.18%	11,205	4.89%	1,019	0.44%	26	0.01%	75	0.03%
1999	899,905	13.32%	34,452	0.51%	32,017	13.97%	2,220	0.97%	71	0.03%	144	0.06%
2000	546,840	8.10%	19,830	0.29%	18,492	8.07%	1,227	0.54%	51	0.02%	60	0.03%
2001	1,275,908	18.89%	44,883	0.66%	42,441	18.52%	2,201	0.96%	97	0.04%	144	0.06%
2002	434,691	6.44%	14,261	0.21%	13,436	5.86%	735	0.32%	32	0.01%	58	0.03%
2003	1,406,132	20.82%	51,394	0.76%	49,321	21.53%	1,778	0.78%	117	0.05%	178	0.08%
2004	208,655	3.09%	6,442	0.10%	6,216	2.71%	180	0.08%	18	0.01%	28	0.01%
2005	183,342	2.71%	5,161	0.08%	5,011	2.19%	136	0.06%	8	0.00%	6	0.00%
2006	82,431	1.22%	2,144	0.03%	2,086	0.91%	52	0.02%	3	0.00%	3	0.00%
2007	56,224	0.83%	1,264	0.02%	1,248	0.54%	15	0.01%	1	0.00%	0	0.00%
2008	55,610	0.82%	1,513	0.02%	1,502	0.66%	10	0.00%	1	0.00%	0	0.00%
2009	18,225	0.27%	1,058	0.02%	1,037	0.45%	21	0.01%	0	0.00%	0	0.00%
2010	1,298	0.02%	21	0.00%	21	0.01%	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	6,754,951	100.00%	229,115	3.39%	215,379	94.00%	12,282	5.36%	548	0.24%	906	0.40%

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
 Year:2009

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	380,622	5.77%	228,448	3.47%	306	0.01%	15,679	0.43%	192,826	5.33%	19,637	0.54%
1997	681,235	10.34%	392,740	5.96%	411	0.01%	20,252	0.56%	339,758	9.39%	32,319	0.89%
1998	527,469	8.00%	295,984	4.49%	369	0.01%	14,502	0.40%	254,806	7.04%	26,307	0.73%
1999	903,855	13.71%	486,801	7.39%	520	0.01%	17,833	0.49%	431,875	11.93%	36,573	1.01%
2000	554,357	8.41%	307,765	4.67%	323	0.01%	14,197	0.39%	268,381	7.41%	24,864	0.69%
2001	1,298,760	19.70%	690,376	10.47%	794	0.02%	25,011	0.69%	608,200	16.80%	56,371	1.56%
2002	445,612	6.76%	247,318	3.75%	235	0.01%	8,154	0.23%	219,371	6.06%	19,558	0.54%
2003	1,396,631	21.19%	733,528	11.13%	322	0.01%	17,022	0.47%	678,633	18.75%	37,551	1.04%
2004	195,429	2.97%	109,337	1.66%	28	0.00%	1,011	0.03%	103,301	2.85%	4,997	0.14%
2005	137,216	2.08%	84,429	1.28%	16	0.00%	542	0.01%	81,146	2.24%	2,725	0.08%
2006	44,720	0.68%	27,158	0.41%	2	0.00%	126	0.00%	26,368	0.73%	662	0.02%
2007	17,964	0.27%	11,856	0.18%	3	0.00%	46	0.00%	11,554	0.32%	253	0.01%
2008	5,441	0.08%	3,362	0.05%	1	0.00%	6	0.00%	3,281	0.09%	74	0.00%
2009	1,632	0.02%	987	0.01%	0	0.00%	8	0.00%	968	0.03%	11	0.00%
2010	116	0.00%	76	0.00%	0	0.00%	0	0.00%	76	0.00%	0	0.00%
2011	1	0.00%	1	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
Total	6,591,060	100.00%	3,620,166	54.93%	3,330	0.09%	134,390	3.71%	3,220,544	88.96%	261,902	7.23%

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
Year:2009

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	380,622	5.77%	106,940	1.62%	43	0.00%	7,436	0.42%	86,990	4.96%	12,471	0.71%
1997	681,235	10.34%	202,635	3.07%	37	0.00%	11,257	0.64%	170,077	9.70%	21,264	1.21%
1998	527,469	8.00%	161,856	2.46%	30	0.00%	8,129	0.46%	138,843	7.92%	14,854	0.85%
1999	903,855	13.71%	245,198	3.72%	49	0.00%	8,486	0.48%	218,629	12.47%	18,034	1.03%
2000	554,357	8.41%	149,649	2.27%	27	0.00%	5,985	0.34%	126,838	7.24%	16,799	0.96%
2001	1,298,760	19.70%	340,343	5.16%	170	0.01%	13,715	0.78%	306,164	17.46%	20,294	1.16%
2002	445,612	6.76%	111,995	1.70%	69	0.00%	4,223	0.24%	97,937	5.59%	9,766	0.56%
2003	1,396,631	21.19%	341,965	5.19%	141	0.01%	8,329	0.48%	309,038	17.63%	24,457	1.40%
2004	195,429	2.97%	46,135	0.70%	6	0.00%	449	0.03%	42,403	2.42%	3,277	0.19%
2005	137,216	2.08%	30,054	0.46%	4	0.00%	227	0.01%	28,778	1.64%	1,045	0.06%
2006	44,720	0.68%	11,001	0.17%	2	0.00%	59	0.00%	10,609	0.61%	331	0.02%
2007	17,964	0.27%	3,822	0.06%	0	0.00%	12	0.00%	3,735	0.21%	75	0.00%
2008	5,441	0.08%	1,235	0.02%	0	0.00%	2	0.00%	1,218	0.07%	15	0.00%
2009	1,632	0.02%	243	0.00%	0	0.00%	0	0.00%	242	0.01%	1	0.00%
2010	116	0.00%	20	0.00%	0	0.00%	0	0.00%	20	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	6,591,060	100.00%	1,753,091	26.60%	578	0.03%	68,309	3.90%	1,541,521	87.93%	142,683	8.14%

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
Year:2009

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	380,622	5.77%	35,254	0.53%	9	0.00%	2,133	0.21%	29,420	2.87%	3,692	0.36%
1997	681,235	10.34%	68,158	1.03%	12	0.00%	3,947	0.39%	59,411	5.80%	4,788	0.47%
1998	527,469	8.00%	59,137	0.90%	16	0.00%	3,007	0.29%	51,241	5.00%	4,873	0.48%
1999	903,855	13.71%	143,093	2.17%	65	0.01%	5,499	0.54%	128,867	12.57%	8,662	0.84%
2000	554,357	8.41%	79,662	1.21%	42	0.00%	3,160	0.31%	71,641	6.99%	4,819	0.47%
2001	1,298,760	19.70%	227,279	3.45%	61	0.01%	7,989	0.78%	208,917	20.38%	10,312	1.01%
2002	445,612	6.76%	74,089	1.12%	18	0.00%	2,560	0.25%	67,836	6.62%	3,675	0.36%
2003	1,396,631	21.19%	275,720	4.18%	44	0.00%	6,614	0.65%	259,360	25.30%	9,702	0.95%
2004	195,429	2.97%	34,432	0.52%	1	0.00%	272	0.03%	33,040	3.22%	1,119	0.11%
2005	137,216	2.08%	19,536	0.30%	0	0.00%	82	0.01%	18,813	1.84%	641	0.06%
2006	44,720	0.68%	5,716	0.09%	0	0.00%	31	0.00%	5,530	0.54%	155	0.02%
2007	17,964	0.27%	1,924	0.03%	0	0.00%	3	0.00%	1,867	0.18%	54	0.01%
2008	5,441	0.08%	752	0.01%	0	0.00%	0	0.00%	742	0.07%	10	0.00%
2009	1,632	0.02%	372	0.01%	0	0.00%	0	0.00%	370	0.04%	2	0.00%
2010	116	0.00%	20	0.00%	0	0.00%	0	0.00%	20	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	6,591,060	100.00%	1,025,144	15.55%	268	0.03%	35,297	3.44%	937,075	91.41%	52,504	5.12%

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
Year:2009

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	380,622	5.77%	9,980	0.15%	3	0.00%	607	0.32%	8,439	4.38%	931	0.48%
1997	681,235	10.34%	17,702	0.27%	1	0.00%	872	0.45%	15,557	8.07%	1,272	0.66%
1998	527,469	8.00%	10,492	0.16%	3	0.00%	511	0.27%	8,980	4.66%	998	0.52%
1999	903,855	13.71%	28,763	0.44%	6	0.00%	1,036	0.54%	25,724	13.35%	1,997	1.04%
2000	554,357	8.41%	17,281	0.26%	0	0.00%	542	0.28%	15,576	8.08%	1,163	0.60%
2001	1,298,760	19.70%	40,762	0.62%	5	0.00%	1,159	0.60%	37,302	19.36%	2,296	1.19%
2002	445,612	6.76%	12,210	0.19%	3	0.00%	365	0.19%	11,034	5.73%	808	0.42%
2003	1,396,631	21.19%	45,418	0.69%	2	0.00%	1,131	0.59%	41,948	21.77%	2,337	1.21%
2004	195,429	2.97%	5,525	0.08%	1	0.00%	86	0.04%	5,220	2.71%	218	0.11%
2005	137,216	2.08%	3,197	0.05%	0	0.00%	17	0.01%	3,030	1.57%	150	0.08%
2006	44,720	0.68%	845	0.01%	0	0.00%	8	0.00%	811	0.42%	26	0.01%
2007	17,964	0.27%	362	0.01%	0	0.00%	1	0.00%	356	0.18%	5	0.00%
2008	5,441	0.08%	92	0.00%	0	0.00%	0	0.00%	89	0.05%	3	0.00%
2009	1,632	0.02%	30	0.00%	0	0.00%	0	0.00%	30	0.02%	0	0.00%
2010	116	0.00%	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	6,591,060	100.00%	192,659	2.92%	24	0.01%	6,335	3.29%	174,096	90.36%	12,204	6.33%

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

Year:2009

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	24,642	12.05%	14,816	7.25%	7,645	3.74%	1,706	0.83%	475	0.23%
1997	31,563	15.44%	17,438	8.53%	10,595	5.18%	2,692	1.32%	838	0.41%
1998	25,734	12.59%	13,815	6.76%	8,140	3.98%	3,195	1.56%	584	0.29%
1999	30,521	14.93%	15,078	7.37%	7,688	3.76%	6,452	3.16%	1,303	0.64%
2000	22,803	11.15%	12,325	6.03%	6,150	3.01%	3,580	1.75%	748	0.37%
2001	31,215	15.27%	14,580	7.13%	8,729	4.27%	6,671	3.26%	1,235	0.60%
2002	11,739	5.74%	6,139	3.00%	3,039	1.49%	2,126	1.04%	435	0.21%
2003	18,133	8.87%	9,699	4.74%	4,295	2.10%	3,185	1.56%	954	0.47%
2004	3,511	1.72%	1,944	0.95%	730	0.36%	699	0.34%	138	0.07%
2005	3,175	1.55%	1,836	0.90%	717	0.35%	532	0.26%	90	0.04%
2006	970	0.47%	534	0.26%	277	0.14%	137	0.07%	22	0.01%
2007	327	0.16%	217	0.11%	74	0.04%	30	0.01%	6	0.00%
2008	92	0.04%	72	0.04%	14	0.01%	6	0.00%	0	0.00%
2009	35	0.02%	25	0.01%	1	0.00%	7	0.00%	2	0.00%
2010	3	0.00%	2	0.00%	0	0.00%	1	0.00%	0	0.00%
2011	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Total	204,463	100.00%	108,520	53.08%	58,094	28.41%	31,019	15.17%	6,830	3.34%

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

Year: 2009

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	16	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	10	0.00%	6	0.00%
1932	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1934	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1947	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	3	0	0.00%	0	0.00%	0	0.00%	0	0.00%	3	0.00%	0	0.00%	0	0.00%
1965	5	0	0.00%	0	0.00%	0	0.00%	0	0.00%	5	0.00%	0	0.00%	0	0.00%
1966	2	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	1	0.00%	0	0.00%
1967	3	0	0.00%	0	0.00%	0	0.00%	0	0.00%	2	0.00%	1	0.00%	0	0.00%
1968	2	0	0.00%	0	0.00%	0	0.00%	0	0.00%	2	0.00%	0	0.00%	0	0.00%
1969	3	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	2	0.00%
1970	9	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	3	0.00%	5	0.00%
1971	4	0	0.00%	0	0.00%	1	0.00%	0	0.00%	2	0.00%	0	0.00%	1	0.00%
1972	4	0	0.00%	0	0.00%	0	0.00%	0	0.00%	2	0.00%	2	0.00%	0	0.00%
1973	5	0	0.00%	2	0.00%	0	0.00%	0	0.00%	1	0.00%	2	0.00%	0	0.00%
1974	32	0	0.00%	1	0.00%	1	0.00%	0	0.00%	1	0.00%	15	0.00%	14	0.00%
1975	83	0	0.00%	16	0.00%	0	0.00%	0	0.00%	2	0.00%	31	0.00%	34	0.00%
1976	14,248	0	0.00%	1,447	0.01%	6	0.00%	0	0.00%	58	0.00%	3,202	0.03%	9,535	0.10%
1977	19,862	0	0.00%	2,030	0.02%	15	0.00%	0	0.00%	77	0.00%	4,575	0.05%	13,165	0.13%
1978	22,636	0	0.00%	2,276	0.02%	14	0.00%	1	0.00%	68	0.00%	5,026	0.05%	15,251	0.16%
1979	25,408	0	0.00%	2,617	0.03%	21	0.00%	0	0.00%	61	0.00%	5,470	0.06%	17,239	0.18%
1980	15,342	0	0.00%	1,552	0.02%	17	0.00%	0	0.00%	47	0.00%	3,088	0.03%	10,638	0.11%
1981	18,008	0	0.00%	1,734	0.02%	27	0.00%	0	0.00%	45	0.00%	3,635	0.04%	12,567	0.13%
1982	20,776	0	0.00%	1,956	0.02%	30	0.00%	0	0.00%	47	0.00%	4,070	0.04%	14,673	0.15%
1983	28,076	0	0.00%	2,802	0.03%	30	0.00%	0	0.00%	59	0.00%	5,564	0.06%	19,621	0.20%
1984	51,447	0	0.00%	5,039	0.05%	37	0.00%	0	0.00%	98	0.00%	10,483	0.11%	35,790	0.36%
1985	69,618	0	0.00%	6,866	0.07%	77	0.00%	0	0.00%	124	0.00%	13,425	0.14%	49,126	0.50%

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

Year: 2009

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
1986	99,174	1	0.00%	9,402	0.10%	136	0.00%	12	0.00%	116	0.00%	19,148	0.19%	70,359	0.72%
1987	118,046	0	0.00%	10,811	0.11%	678	0.01%	63	0.00%	133	0.00%	21,613	0.22%	84,748	0.86%
1988	142,785	0	0.00%	12,673	0.13%	1,806	0.02%	34	0.00%	167	0.00%	26,129	0.27%	101,976	1.04%
1989	194,515	1	0.00%	17,206	0.18%	1,655	0.02%	33	0.00%	187	0.00%	34,895	0.36%	140,538	1.43%
1990	233,044	0	0.00%	20,374	0.21%	1,596	0.02%	85	0.00%	280	0.00%	41,409	0.42%	169,300	1.72%
1991	275,209	1	0.00%	23,914	0.24%	2,669	0.03%	3	0.00%	303	0.00%	47,552	0.48%	200,767	2.04%
1992	275,520	0	0.00%	23,816	0.24%	2,176	0.02%	0	0.00%	359	0.00%	47,112	0.48%	202,057	2.06%
1993	336,360	3	0.00%	28,765	0.29%	1,919	0.02%	4	0.00%	352	0.00%	56,423	0.57%	248,894	2.53%
1994	380,486	0	0.00%	33,339	0.34%	1,683	0.02%	7	0.00%	413	0.00%	65,775	0.67%	279,269	2.84%
1995	551,981	3	0.00%	48,504	0.49%	733	0.01%	6	0.00%	524	0.01%	88,081	0.90%	414,130	4.21%
1996	386,543	4	0.00%	34,340	0.35%	860	0.01%	0	0.00%	518	0.01%	71,252	0.73%	279,569	2.85%
1997	689,331	3	0.00%	62,915	0.64%	1,440	0.01%	28	0.00%	556	0.01%	108,962	1.11%	515,427	5.25%
1998	532,383	2	0.00%	46,629	0.47%	2,782	0.03%	7	0.00%	432	0.00%	94,455	0.96%	388,076	3.95%
1999	914,148	15	0.00%	86,717	0.88%	2,379	0.02%	15	0.00%	500	0.01%	254,569	2.59%	569,953	5.80%
2000	560,342	12	0.00%	48,116	0.49%	3,780	0.04%	3	0.00%	405	0.00%	215,191	2.19%	292,835	2.98%
2001	1,308,444	46	0.00%	115,598	1.18%	4,239	0.04%	104	0.00%	375	0.00%	515,854	5.25%	672,228	6.84%
2002	450,110	2	0.00%	38,441	0.39%	3,093	0.03%	1	0.00%	294	0.00%	182,088	1.85%	226,191	2.30%
2003	1,449,066	32	0.00%	124,315	1.27%	3,533	0.04%	222	0.00%	528	0.01%	575,049	5.85%	745,387	7.59%
2004	220,124	2	0.00%	17,186	0.17%	366	0.00%	0	0.00%	228	0.00%	107,485	1.09%	94,857	0.97%
2005	192,016	6	0.00%	13,392	0.14%	81	0.00%	0	0.00%	246	0.00%	111,162	1.13%	67,129	0.68%
2006	88,110	0	0.00%	5,289	0.05%	15	0.00%	0	0.00%	252	0.00%	57,345	0.58%	25,209	0.26%
2007	60,362	0	0.00%	3,743	0.04%	9	0.00%	0	0.00%	214	0.00%	38,799	0.39%	17,597	0.18%
2008	59,542	0	0.00%	3,759	0.04%	98	0.00%	0	0.00%	249	0.00%	40,039	0.41%	15,397	0.16%
2009	20,884	0	0.00%	2,012	0.02%	142	0.00%	33	0.00%	282	0.00%	12,479	0.13%	5,936	0.06%
2010	1,841	0	0.00%	315	0.00%	29	0.00%	0	0.00%	6	0.00%	837	0.01%	654	0.01%
2011	1	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Total	9,825,967	133	0.00%	859,909	8.75%	38,174	0.39%	661	0.01%	8,633	0.09%	2,892,307	29.44%	6,026,150	61.33%

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

Year: 2009

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
1964	2	0	0.00%	0	0.00%	0	0.00%	0	0.00%	2	0.00%	0	0.00%	0	0.00%
1965	3	0	0.00%	0	0.00%	0	0.00%	0	0.00%	3	0.00%	0	0.00%	0	0.00%
1966	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	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%
1969	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%
1970	3	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%	2	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%
1972	1	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%
1973	3	0	0.00%	1	0.00%	0	0.00%	0	0.00%	1	0.00%	1	0.00%	0	0.00%
1974	14	0	0.00%	1	0.00%	1	0.00%	0	0.00%	1	0.00%	7	0.00%	4	0.00%
1975	22	0	0.00%	6	0.00%	0	0.00%	0	0.00%	2	0.00%	7	0.00%	7	0.00%
1976	4,244	0	0.00%	632	0.05%	1	0.00%	0	0.00%	44	0.00%	920	0.08%	2,647	0.22%
1977	5,760	0	0.00%	824	0.07%	5	0.00%	0	0.00%	60	0.00%	1,342	0.11%	3,529	0.29%
1978	6,750	0	0.00%	956	0.08%	3	0.00%	0	0.00%	53	0.00%	1,471	0.12%	4,267	0.35%
1979	7,929	0	0.00%	1,101	0.09%	6	0.00%	0	0.00%	47	0.00%	1,668	0.14%	5,107	0.42%
1980	4,455	0	0.00%	640	0.05%	6	0.00%	0	0.00%	33	0.00%	886	0.07%	2,890	0.24%
1981	5,422	0	0.00%	741	0.06%	12	0.00%	0	0.00%	36	0.00%	1,060	0.09%	3,573	0.29%
1982	6,132	0	0.00%	810	0.07%	11	0.00%	0	0.00%	39	0.00%	1,106	0.09%	4,166	0.34%
1983	8,260	0	0.00%	1,140	0.09%	5	0.00%	0	0.00%	44	0.00%	1,533	0.13%	5,538	0.45%
1984	15,745	0	0.00%	2,092	0.17%	10	0.00%	0	0.00%	71	0.01%	3,078	0.25%	10,494	0.86%
1985	20,430	0	0.00%	2,710	0.22%	17	0.00%	0	0.00%	86	0.01%	3,807	0.31%	13,810	1.13%
1986	27,271	0	0.00%	3,427	0.28%	32	0.00%	2	0.00%	80	0.01%	5,095	0.42%	18,635	1.53%
1987	33,373	0	0.00%	4,024	0.33%	68	0.01%	8	0.00%	96	0.01%	5,648	0.46%	23,529	1.93%
1988	37,312	0	0.00%	4,422	0.36%	139	0.01%	6	0.00%	114	0.01%	6,414	0.52%	26,217	2.15%
1989	46,223	0	0.00%	5,460	0.45%	129	0.01%	7	0.00%	131	0.01%	7,629	0.62%	32,867	2.69%
1990	53,117	0	0.00%	6,060	0.50%	137	0.01%	6	0.00%	187	0.02%	8,628	0.71%	38,099	3.12%
1991	59,445	0	0.00%	6,607	0.54%	204	0.02%	0	0.00%	199	0.02%	9,427	0.77%	43,008	3.52%

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

Year: 2009

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
1992	56,645	0	0.00%	6,286	0.51%	170	0.01%	0	0.00%	248	0.02%	9,051	0.74%	40,890	3.35%
1993	75,674	0	0.00%	8,108	0.66%	419	0.03%	0	0.00%	246	0.02%	11,332	0.93%	55,569	4.55%
1994	76,077	0	0.00%	8,460	0.69%	266	0.02%	1	0.00%	270	0.02%	11,918	0.98%	55,162	4.52%
1995	90,153	0	0.00%	10,244	0.84%	66	0.01%	0	0.00%	338	0.03%	13,683	1.12%	65,822	5.39%
1996	73,285	0	0.00%	8,155	0.67%	75	0.01%	0	0.00%	338	0.03%	12,120	0.99%	52,597	4.31%
1997	97,071	1	0.00%	11,126	0.91%	148	0.01%	7	0.00%	318	0.03%	14,520	1.19%	70,951	5.81%
1998	69,794	0	0.00%	7,729	0.63%	171	0.01%	1	0.00%	223	0.02%	11,132	0.91%	50,538	4.14%
1999	80,449	0	0.00%	9,346	0.76%	151	0.01%	2	0.00%	204	0.02%	19,700	1.61%	51,046	4.18%
2000	56,394	0	0.00%	6,060	0.50%	254	0.02%	0	0.00%	205	0.02%	19,017	1.56%	30,858	2.53%
2001	91,959	1	0.00%	10,274	0.84%	225	0.02%	4	0.00%	151	0.01%	31,678	2.59%	49,626	4.06%
2002	31,434	1	0.00%	3,323	0.27%	155	0.01%	0	0.00%	119	0.01%	10,933	0.89%	16,903	1.38%
2003	61,843	0	0.00%	6,486	0.53%	207	0.02%	14	0.00%	155	0.01%	21,657	1.77%	33,324	2.73%
2004	7,521	0	0.00%	731	0.06%	17	0.00%	0	0.00%	82	0.01%	3,590	0.29%	3,101	0.25%
2005	6,192	0	0.00%	528	0.04%	9	0.00%	0	0.00%	100	0.01%	3,625	0.30%	1,930	0.16%
2006	2,501	0	0.00%	216	0.02%	5	0.00%	0	0.00%	102	0.01%	1,585	0.13%	593	0.05%
2007	1,535	0	0.00%	126	0.01%	0	0.00%	0	0.00%	62	0.01%	960	0.08%	387	0.03%
2008	889	0	0.00%	72	0.01%	4	0.00%	0	0.00%	60	0.00%	575	0.05%	178	0.01%
2009	380	0	0.00%	35	0.00%	6	0.00%	3	0.00%	81	0.01%	201	0.02%	54	0.00%
2010	22	0	0.00%	1	0.00%	1	0.00%	0	0.00%	0	0.00%	17	0.00%	3	0.00%
2011	1	0	0.00%	0	0.00%	1	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Total	1,221,740	3	0.00%	138,960	11.37%	3,136	0.26%	61	0.00%	4,636	0.38%	257,022	21.04%	817,922	66.95%

I/M RULE SECTION 51.366 DATA ANALYSIS AND REPORTING:

ATTACHMENT B



Calendar Year 2009

I/M Rule Section 51.366 Data Analysis and Reporting

(b) Quality assurance report

(c) Quality control report

Smog Check License Information

Licensed Smog Check Stations as of 12/31/2009	7,064
Smog Check Station Licenses Issued	808
Licensed Smog Check Technicians as of 12/31/2009	14,775

Inspections

Initial Inspections	868
Initial Follow Up Inspections	261
Quality Assurance (QA) Inspections	3,821
QA Follow Up Inspections	1,979
Consumer Assistance Program (CAP) Inspections	712
CAP Follow Up Inspections	71
Gas Audit Inspections	1,148
Other Inspections	3,322
Total Inspections	12,182

Undercover Run Data

Undercover Runs Conducted	1,660
Positive Undercover Runs	762
Percentage of Positive Runs	45%
Smog Check Stations Receiving U/C Runs	1,017



Calendar Year 2009

I/M Rule Section 51.366 Data Analysis and Reporting

(b) Quality assurance report

(c) Quality control report

Citations Issued

Station Citations	635
Station Citation Fines	\$478,750
Technician Citations	644
Technician Training Hours Required	9,648

Administrative Disciplinary Filings*

Hearings	37
Stipulation Settlement	77
Default Decision	56
Total Cases Adjudicated	170
Licenses Revoked	203
Probation Ordered	60
Probation/Suspension Ordered	25
Total Licenses Disciplined	288

Gas Audits

Gas Audit Inspections	1,148
Stations Audited	818
Stations Failing Gas Audit	236 (29%)
Stations Locked Out due to Gas Audit	75 (9%)
Stations given "7 day notice" prior to lockout	337 (41%)

Resources for Undercover Audits

Vehicles Available for Undercover Audits	565
Auditors Available for Undercover Audits	125



Calendar Year 2009

I/M Rule Section 51.366 Data Analysis and Reporting

- (b) Quality assurance report
- (c) Quality control report

Inspections:

Initial Inspection: Performed prior to issuing a new Smog Check station license to determine compliance with requirements for station equipment and technician competence.

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.

Consumer Assistance Program (CAP) Inspection: Performed to review repairs for compliance with the CAP Program regulations. Includes paperwork requirements, pricing and repair effectiveness.

Gas Audit Inspection: Performed in order to audit the BAR 97 Emissions Inspection System (EIS) by using calibrated audit gas to measure the accuracy of the EIS.

Used Car Lot Inspection: Performed to determine the status of used vehicles offered for sale at a used car dealer.

Other Inspection: Inspections classified as "other" performed when a station inspection is deemed necessary.

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 \$500 to \$2,000. Smog Check Technicians are issued citations, which require completion of 8 hour, 16 hour or 68 hour training courses.

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.

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.

Calendar Year 2009

DEPARTMENT OF CONSUMER AFFAIRS



I/M Rule Section 51.366 Data Analysis and Reporting

- (b) Quality assurance report
- (c) Quality control report

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 I are assigned to perform overt audits, covert audits, complaint mediation, and investigations among other duties.