

Executive Summary Report

SMOG CHECK Statewide

April 2015

1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	985,486	108,226	10.98%
Total	1,108,644	135,046	12.18%

2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	865,905	87.87%	119,581	12.13%
Total	960,430	86.63%	148,214	13.37%

3. Certification Volume by Station Type*

Station Types	Certificates Issued on Initial Test	Percent (%) Certificates Issued	No Certificates Issued on Initial Test	Percent (%) No Certificates Issued
STAR Test Only	421,492	87.10%	62,416	12.90%
Non-STAR Test Only	30,030	91.33%	2,851	8.67%
STAR Test and Repair	247,576	87.59%	35,091	12.41%
Non-STAR Test and Repair	162,705	91.73%	14,666	8.27%
Total	861,803	88.22%	115,024	11.78%

*Note: Excludes Basic area dealer, Fleets, and Referee stations

4. Initial Test Failures by Failure Type

	OIS		BAR-97	
	Failed	Percent (%) Failed	Failed	Percent (%) Failed
All Emissions	NA	NA	40,614	15.10%
All Visual	11,313	1.58%	12,588	4.68%
All Functional	43,478	6.07%	29,929	11.10%
OBDII	42,096	5.87%	13,354	4.97%
Overall	51,408	7.17%	56,818	21.10%

5. Initial Tests at All STAR Stations

Vehicles	Test and Repair Station Initial Tests	Test-Only Station Initial Tests	Test and Repair Station Certificates Issued	Test-Only Station Certificates Issued
Directed	53,962	122,116	42,046	96,371
Non-Directed	228,705	361,792	205,530	325,121
Total	282,667	483,908	247,576	421,492

6. Initial Tests at All Non-STAR Stations

Vehicles	Test and Repair Station Initial Tests	Test-Only Station Initial Tests	Test and Repair Station Certificates Issued	Test-Only Station Certificates Issued
Directed	556	144	147	61
Non-Directed	176,815	32,737	162,558	29,969
Total	177,371	32,881	162,705	30,030

7. Initial Test Failures by Program Area

Program Areas	OIS			BAR-97		
	Initial Tests	Failed	Percent (%) Failed	Initial Tests	Failed	Percent (%) Failed
Enhanced	624,666	45,435	7.27%	213,610	47,221	22.10%
Partial	31,656	2,218	7.01%	14,893	3,264	21.90%
Basic	53,975	3,269	6.06%	30,019	3,966	13.20%
Change of Ownership	6,439	486	7.55%	2,440	531	21.80%
No Program	0	0	0.00%	5	3	60.00%
Unknown	0	0	0.00%	7,783	1,833	23.60%
Total Program Area	716,736	51,408	7.17%	268,750	56,818	21.10%

8. Initial Test Failures by Station Type

Station Types	OIS			BAR-97		
	Initial Tests	Failed	Percent (%) Failed	Initial Tests	Failed	Percent (%) Failed
STAR Test Only	334,211	26,735	8.00%	149,697	33,139	22.10%
STAR Test Only Suspended	0	0	0.00%	0	0	0.00%
Non-STAR Test Only	27,062	1,681	6.21%	5,819	964	16.60%
STAR Test and Repair	204,171	14,982	7.34%	78,496	17,826	22.70%
STAR Test and Repair Suspended	0	0	0.00%	0	0	0.00%
Non-STAR Test and Repair	146,580	7,747	5.29%	30,791	4,365	14.20%
Test and Repair/Dealer	3,580	181	5.06%	599	49	8.18%
Business Fleet	0	0	0.00%	0	0	0.00%
Permanent Fleet Registered	0	0	0.00%	1	0	0.00%
Referee	125	47	37.60%	326	170	52.10%
Govt Fleet	1,007	35	3.48%	3,021	305	10.10%
Total	716,736	51,408	7.17%	268,750	56,818	21.10%

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9. Number of Licensed Stations by Type/Privilege and Program Area

Station Type	Basic	Change of Ownership	Enhanced	Partial	Total
STAR Regular Test and Repair CAP Enhanced	0	0	2,134	102	2,236
STAR Regular Test and Repair CAP Basic	145	0	0	0	145
STAR Regular Test and Repair CAP COO	0	68	0	0	68
STAR Test Only	15	1	1,882	28	1,926
Non-STAR Regular Test and Repair	490	35	2,269	230	3,024
Non-STAR Test Only	15	0	407	11	433
Repair Only	3	1	59	0	63
Basic Area Dealer	77	0	0	0	77
Business Fleet	0	0	3	0	3
Permanent Fleet Registered	4	0	28	1	33
Referee	6	1	36	0	43
Government Fleet	39	2	264	10	315
Unknown Type	0	0	2	0	2
Total	794	108	7,084	382	8,368

10. Number of Stations Conducting Test by Equipment Type

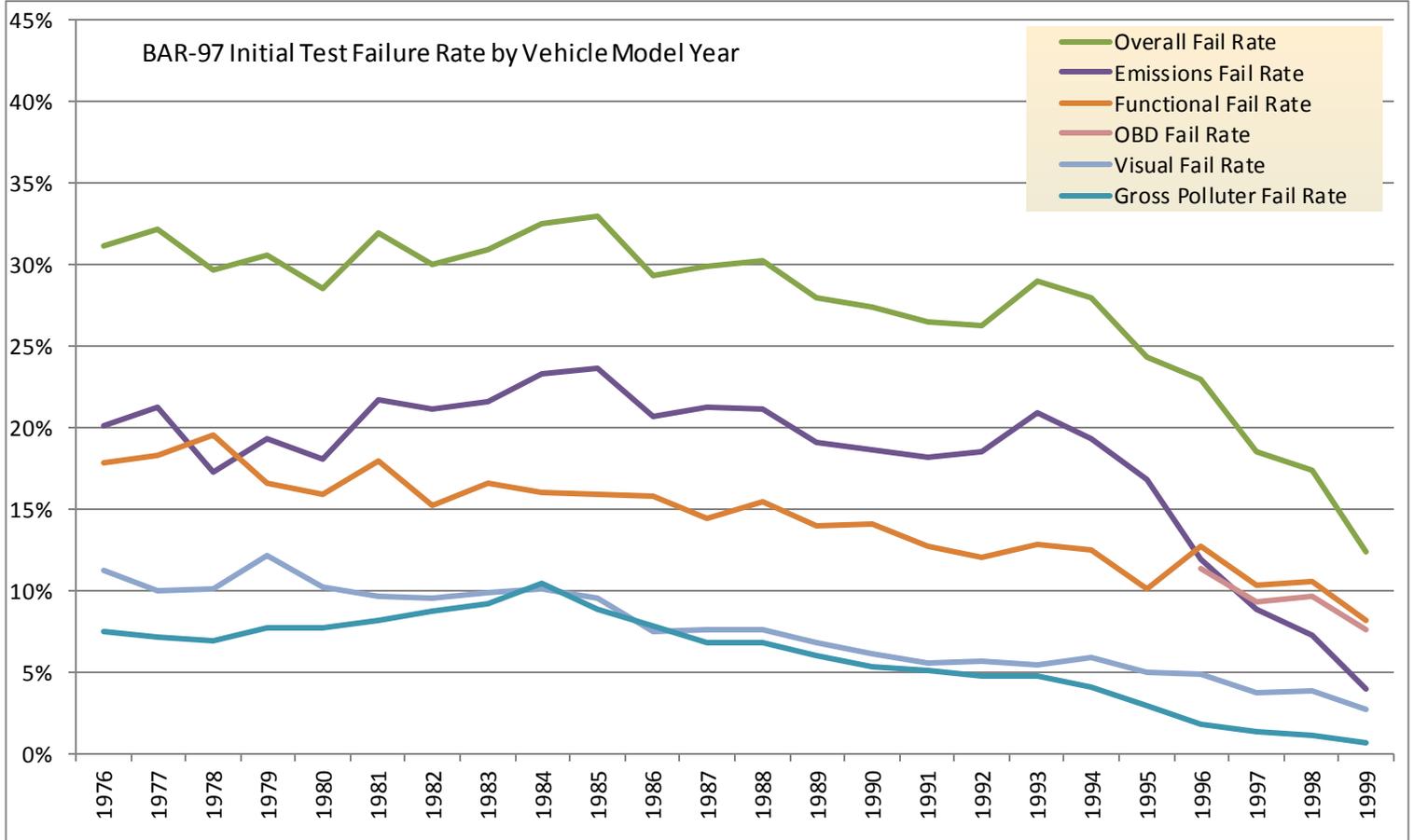
Station Type	Equipment Type		
	BAR-97 Only	OIS Only	BAR-97 & OIS
STAR Regular Test and Repair CAP Enhanced	7	67	2,156
STAR Regular Test and Repair CAP Basic	1	2	89
STAR Regular Test and Repair CAP COO	0	7	66
STAR Test Only	6	13	1,814
Non-STAR Regular Test and Repair	31	1,011	1,414
Non-STAR Test Only	11	41	218
Basic Area Dealer	0	14	59
Business Fleet	0	0	0
Permanent Fleet Registered	1	0	0
Referee	0	0	30
Government Fleet	85	36	29
Unknown Type	0	0	3
Total	142	1,191	5,878

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11. BAR-97 Initial Test Failure Rate by Vehicle Model Year



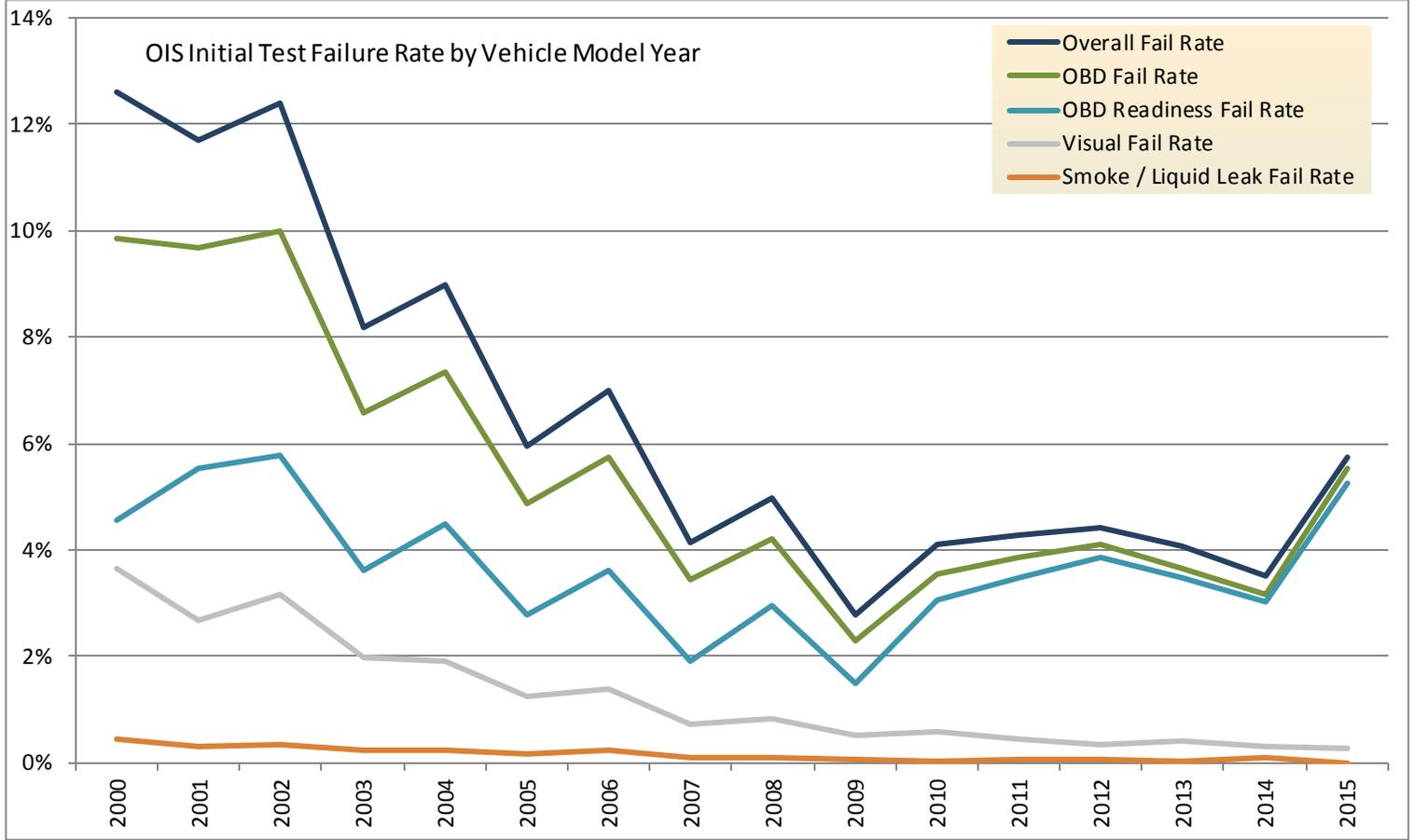
Note: Please see tabular data in Table 17 for BAR-97 tests conducted on other vehicle model years not shown in chart.

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12. OIS Initial Test Failure Rate by Vehicle Model Year



Note: Please see tabular data in Table 18 for OIS tests conducted on other vehicle model years not shown in chart.

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13. Referee Activity

	OIS Certificates Issued	BAR-97 Certificates Issued
Certificate of Compliance	206	290
Certificate of Non Compliance	0	0
Parts Cost	27	25
Hardship Extensions	0	0
Exempt Vehicle	0	20
Exempted by Directive	4	1
Parts Exemption	0	0
Unknown Outcome	0	0
Permanently Exempt Vehicle	0	0
Temporarily Exempt Vehicle	0	0
Total	237	336

14. Active Technicians

License Type	Technician Count
EA (Test and Repair Enhanced)	6
EB (Test and Repair Basic)	1
EI (Repair Only)	1
EO (Test Only)	2,170
EO (Test and Repair)	6,096
Total	8,274

15. Inspection Costs by Station and Test Type

Station Type	BAR-97 Initial Test Count	Average BAR-97 Inspection Cost	OIS Initial Test Count	Average OIS Inspection Cost	Total Initial Test Count	Overall Average Inspection Cost
STAR Test and Repair	78,000	\$47.59	200,943	\$46.58	278,943	\$46.87
STAR Test Only	148,179	\$47.71	326,396	\$48.78	474,575	\$48.45
Non-STAR Test and Repair	30,277	\$44.90	142,674	\$52.25	172,951	\$50.96
Non-STAR Test Only	5,658	\$41.10	25,315	\$47.81	30,973	\$46.59
Test and Repair/Dealer	596	\$49.55	3,398	\$56.85	3,994	\$55.76
Total	262,710	\$47.21	698,726	\$48.86	961,436	\$48.41

16. Inspection Costs by Station and Equipment Type

Station Type	BAR-97 Equipment Only		OIS Equipment Only		Both Equipment (BAR-97 + OIS)			
	BAR-97 Initial Test Count	Average BAR-97 Inspection Cost	OIS Initial Test Count	Average OIS Inspection Cost	BAR-97 Initial Test Count	Average BAR-97 Inspection Cost	OIS Initial Test Count	Average OIS Inspection Cost
STAR Test and Repair	56	\$47.18	2,263	\$56.26	77,944	\$47.59	198,680	\$46.47
STAR Test Only	206	\$47.40	1,067	\$31.75	147,973	\$47.71	325,329	\$48.84
Non-STAR Test and Repair	204	\$47.74	45,571	\$63.13	30,073	\$44.88	97,103	\$47.15
Non-STAR Test Only	183	\$36.82	2,168	\$44.25	5,475	\$41.25	23,147	\$48.14
Test and Repair/Dealer	0	\$0.00	444	\$64.46	596	\$49.55	2,954	\$55.70
Total	649	\$44.51	51,513	\$61.39	262,061	\$47.22	647,213	\$47.87

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17. Tabular Data for BAR-97 Initial Tests by Vehicle Model Year

Model Year	Initial Tests	Failed Overall	Percent (%) Failed Overall	Percent (%) Failed Emissions	Percent (%) Failed Gross Polluters	Percent (%) Failed Functional	Percent (%) Failed Visual	Percent (%) Failed OBDII
1976	752	234	31.12%	20.08%	7.45%	17.82%	11.17%	NA
1977	983	316	32.15%	21.16%	7.12%	18.31%	9.97%	NA
1978	1,166	346	29.67%	17.24%	6.95%	19.47%	10.03%	NA
1979	1,140	348	30.53%	19.30%	7.72%	16.58%	12.11%	NA
1980	705	201	28.51%	18.01%	7.66%	15.89%	10.21%	NA
1981	783	250	31.93%	21.71%	8.17%	17.88%	9.58%	NA
1982	861	258	29.97%	21.14%	8.71%	15.21%	9.52%	NA
1983	1,145	353	30.83%	21.57%	9.17%	16.51%	9.87%	NA
1984	2,030	659	32.46%	23.30%	10.39%	16.01%	10.05%	NA
1985	2,716	893	32.88%	23.56%	8.87%	15.87%	9.57%	NA
1986	3,734	1,093	29.27%	20.67%	7.77%	15.72%	7.50%	NA
1987	4,384	1,309	29.86%	21.17%	6.77%	14.39%	7.57%	NA
1988	5,095	1,537	30.17%	21.12%	6.83%	15.41%	7.60%	NA
1989	7,236	2,020	27.92%	19.10%	6.03%	13.94%	6.80%	NA
1990	8,803	2,407	27.34%	18.63%	5.33%	14.07%	6.10%	NA
1991	10,370	2,747	26.49%	18.15%	5.03%	12.72%	5.49%	NA
1992	11,113	2,916	26.24%	18.52%	4.79%	12.07%	5.62%	NA
1993	13,301	3,847	28.92%	20.89%	4.80%	12.83%	5.38%	NA
1994	17,074	4,765	27.91%	19.29%	4.01%	12.52%	5.89%	NA
1995	24,375	5,925	24.31%	16.83%	2.94%	10.11%	5.01%	NA
1996	20,527	4,711	22.95%	11.93%	1.79%	12.68%	4.88%	11.29%
1997	36,163	6,679	18.47%	8.81%	1.34%	10.36%	3.73%	9.31%
1998	33,534	5,817	17.35%	7.22%	1.15%	10.59%	3.82%	9.68%
1999	54,754	6,769	12.36%	3.96%	0.68%	8.15%	2.72%	7.59%
2000	698	100	14.33%	8.60%	2.87%	8.31%	2.44%	8.02%
2001	695	86	12.37%	5.61%	1.73%	9.93%	1.01%	9.64%
2002	430	50	11.63%	5.58%	2.56%	8.60%	1.63%	8.60%
2003	828	68	8.21%	3.99%	0.85%	5.68%	0.97%	5.19%
2004	474	27	5.70%	2.11%	0.63%	3.80%	1.05%	3.59%
2005	725	28	3.86%	1.24%	0.28%	2.76%	0.41%	2.48%
2006	493	14	2.84%	1.22%	0.00%	2.64%	0.20%	1.01%
2007	626	14	2.24%	1.76%	0.32%	0.96%	0.64%	0.96%
2008	437	7	1.60%	1.60%	0.23%	1.37%	0.00%	1.37%
2009	277	13	4.69%	1.08%	0.00%	3.97%	0.72%	3.97%
2010	29	0	0.00%	3.45%	0.00%	0.00%	0.00%	0.00%
2011	45	4	8.89%	4.44%	0.00%	6.67%	2.22%	6.67%
2012	38	1	2.63%	2.63%	0.00%	2.63%	0.00%	2.63%
2013	39	1	2.56%	0.00%	0.00%	0.00%	2.56%	0.00%
2014	72	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2015	100	5	5.00%	5.00%	0.00%	0.00%	4.00%	0.00%
All Model Years	268,750	56,818	21.14%	12.27%	2.85%	11.14%	4.68%	4.97%

Note: Vehicle model years 2000 and newer were tested on the BAR-97 because they may not be compatible with the OIS test (for example, a non-OBD-II certified vehicle).

See Table 19 for Smog Check requirements.

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18. Tabular Data for OIS Initial Tests by Vehicle Model Year

Model Year	Initial Tests	Failed Overall	Percent (%) Failed Overall	Percent (%) Failed Functional	Percent (%) Failed Visual	Percent (%) Failed OBDII	Percent (%) Failed OBDII Readiness	Percent (%) Failed Smoke and/or Liquid Leak
1986	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1993	2	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1995	2	2	100.00%	50.00%	50.00%	50.00%	50.00%	0.00%
1996	117	11	9.40%	7.69%	1.71%	7.69%	2.56%	0.00%
1997	267	22	8.24%	6.37%	2.62%	5.24%	3.37%	1.12%
1998	461	36	7.81%	5.86%	2.17%	5.42%	1.30%	0.43%
1999	1,390	101	7.27%	5.68%	2.30%	4.75%	1.15%	0.94%
2000	44,048	5,565	12.60%	10.30%	3.66%	9.86%	4.54%	0.44%
2001	78,924	9,259	11.70%	9.98%	2.68%	9.68%	5.53%	0.30%
2002	44,070	5,447	12.40%	10.30%	3.16%	10.00%	5.76%	0.34%
2003	91,143	7,448	8.17%	6.81%	1.96%	6.58%	3.62%	0.23%
2004	43,879	3,941	8.98%	7.61%	1.91%	7.36%	4.50%	0.25%
2005	105,674	6,297	5.96%	5.01%	1.25%	4.86%	2.78%	0.15%
2006	42,136	2,943	6.98%	5.96%	1.37%	5.74%	3.63%	0.22%
2007	110,056	4,542	4.13%	3.55%	0.73%	3.45%	1.89%	0.10%
2008	29,017	1,438	4.96%	4.33%	0.82%	4.22%	2.94%	0.10%
2009	63,774	1,772	2.78%	2.35%	0.50%	2.29%	1.49%	0.06%
2010	11,949	489	4.09%	3.57%	0.60%	3.54%	3.05%	0.03%
2011	15,316	653	4.26%	3.90%	0.45%	3.86%	3.49%	0.05%
2012	10,741	475	4.42%	4.14%	0.34%	4.10%	3.86%	0.05%
2013	12,083	491	4.06%	3.68%	0.40%	3.64%	3.48%	0.04%
2014	8,748	308	3.52%	3.24%	0.31%	3.16%	3.01%	0.08%
2015	2,934	168	5.73%	5.52%	0.27%	5.52%	5.25%	0.00%
2016	4	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
All Model Years	716,736	51,408	7.17%	6.07%	1.58%	5.87%	3.45%	0.19%

Note: Some model year 1999 and older vehicles required a Referee inspection, were tested at Beta stations, or were 1998/1999 model year diesels.

See Table 19 for Smog Check requirements.

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19. Smog Check Requirements by Vehicle Type

SMOG CHECK REQUIREMENTS BY VEHICLE TYPE						
Fuel Type	Model-Year	GVWR ¹	OBD II Equipped?	Smog Check Required		
				None	OIS Test	BAR-97 Test
All ² (except Diesel)	Four model-years and newer ³	All	All	X		
	Fifth and sixth model-years ⁴	All	All	X		
	1975 and earlier	All	All	X		
Gasoline & Flex Fuel (Methanol or Ethanol)	1976-1999	All	All			X
	2000 and newer	14,000 and less	Yes ⁵		X	
		Over 14,000	All	No		
Hybrid	2000 and newer	14,000 and less	All		X	
Dedicated Propane and Natural Gas (CNG, LNG, or LPG)	1976-1999	14,000 and less	All			X
		Over 14,000	All	X		
	2000 and newer	14,000 and less	Yes		X	
		Over 14,000	All	No		
Diesel	1976-1997	All	All	X		
	1998 and newer	14,000 and less	All		X	
		Over 14,000	All	X ⁶		
Full Electric Powered	All	All	All	X		
Motorcycle	All	All	All	X		
Other Vehicles: Two Cylinder Engine, Two-stroke Engine, Off-highway Registered	All	All	All	X		

¹ Gross vehicle weight rating

² Includes gasoline, flex fuel, hybrid, dedicated propane, and natural gas vehicles. A Smog Check is required for all out-of-state 1976 model-year and newer vehicles registering in California for the first time and other initial registration events determined by the Department of Motor Vehicles.

³ Vehicles four model-years and newer are not subject to biennial (every other year) or change-of-ownership Smog Checks. Add four to the model-year of a vehicle to determine the first year a vehicle will be subject to a change-of-ownership Smog Check. For example, a 2010 model-year vehicle will be first subject a change-of-ownership Smog Check in 2014 (2010+4=2014).

⁴ Fifth and sixth model-year vehicles are not subject to biennial Smog Checks. However, a change-of-ownership Smog Check is required. Add six to the model-year of a vehicle to determine the first year a vehicle will be subject to a biennial Smog Check. For example, a 2010 model-year vehicle will be first subject to a biennial Smog Check in 2016 (2010+6=2016).

⁵ In the future, BAR may identify some vehicles that have GVWR of 14,000 and less or that have problematic OBDII systems that may require the BAR-97 test.

⁶ Fleet vehicles are subject to the ARB Periodic Smoke Inspection Program (PSIP).