

Executive Summary Report

SMOG CHECK Statewide

July 2015

1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	1,031,235	117,691	11.41%
Total	1,162,110	147,598	12.70%

2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	903,932	87.66%	127,303	12.34%
Total	1,003,249	86.33%	158,861	13.67%

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	444,989	86.92%	66,958	13.08%
Non-STAR Test Only	29,788	90.93%	2,970	9.07%
STAR Test and Repair	262,747	87.35%	38,037	12.65%
Non-STAR Test and Repair	161,496	91.12%	15,745	8.88%
Total	899,020	87.90%	123,710	12.10%

*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	38,553	15.00%
All Visual	10,508	1.36%	11,176	4.35%
All Functional	53,745	6.94%	31,643	12.30%
OBDII	52,586	6.79%	16,894	6.57%
Overall	60,837	7.86%	56,854	22.10%

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	53,958	118,496	41,766	92,519
Non-Directed	246,826	393,451	220,981	352,470
Total	300,784	511,947	262,747	444,989

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	441	118	164	67
Non-Directed	176,800	32,640	161,332	29,721
Total	177,241	32,758	161,496	29,788

7. Initial Test Failures by Program Area

Program Areas	OIS			BAR-97		
	Initial Tests	Failed	Percent (%) Failed	Initial Tests	Failed	Percent (%) Failed
Enhanced	674,622	53,469	7.93%	204,359	47,092	23.00%
Partial	34,001	2,587	7.61%	14,144	3,309	23.40%
Basic	59,530	4,259	7.15%	29,342	4,224	14.40%
Change of Ownership	6,051	522	8.63%	2,269	541	23.80%
No Program	0	0	0.00%	4	1	25.00%
Unknown	0	0	0.00%	6,913	1,687	24.40%
Total Program Area	774,204	60,837	7.86%	257,031	56,854	22.10%

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	368,527	31,583	8.57%	143,420	33,008	23.00%
STAR Test Only Suspended	352	25	7.10%	19	6	31.60%
Non-STAR Test Only	27,309	1,813	6.64%	5,449	967	17.70%
STAR Test and Repair	223,589	18,087	8.09%	77,195	18,042	23.40%
STAR Test and Repair Suspended	67	4	5.97%	7	4	57.10%
Non-STAR Test and Repair	149,159	8,942	5.99%	28,082	4,338	15.40%
Test and Repair/Dealer	3,956	229	5.79%	629	71	11.30%
Business Fleet	2	0	0.00%	0	0	0.00%
Permanent Fleet Registered	0	0	0.00%	3	1	33.30%
Referee	208	100	48.10%	348	182	52.30%
Govt Fleet	1,035	54	5.22%	1,879	235	12.50%
Total	774,204	60,837	7.86%	257,031	56,854	22.10%

Executive Summary Report

SMOG CHECK Statewide

July 2015

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	2,150	97	2,247
STAR Regular Test and Repair CAP Basic	153	0	0	0	153
STAR Regular Test and Repair CAP COO	0	67	0	0	67
STAR Test Only	16	1	1,877	26	1,920
Non-STAR Regular Test and Repair	487	36	2,288	238	3,049
Non-STAR Test Only	16	1	393	14	424
Repair Only	2	1	56	0	59
Basic Area Dealer	76	0	0	0	76
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	265	10	316
Unknown Type	0	0	6	0	6
Total	799	109	7,102	386	8,396

10. Number of Stations Conducting Test by Equipment Type

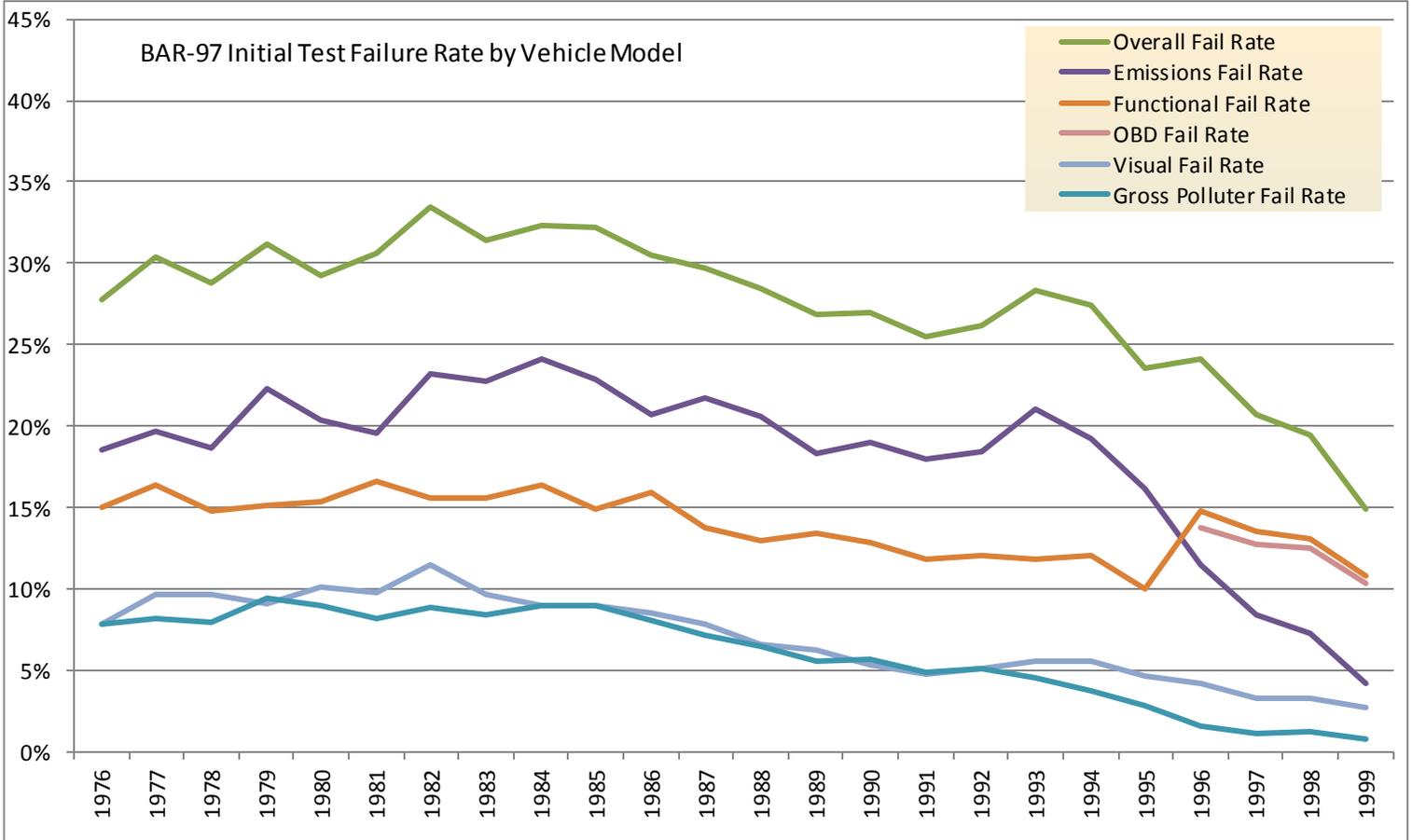
Station Type	Equipment Type		
	BAR-97 Only	OIS Only	BAR-97 & OIS
STAR Regular Test and Repair CAP Enhanced	5	92	2,159
STAR Regular Test and Repair CAP Basic	0	3	93
STAR Regular Test and Repair CAP COO	0	6	59
STAR Test Only	1	22	1,818
Non-STAR Regular Test and Repair	14	1,152	1,303
Non-STAR Test Only	3	47	205
Basic Area Dealer	0	18	54
Business Fleet	0	1	0
Permanent Fleet Registered	1	0	0
Referee	0	1	30
Government Fleet	73	38	46
Unknown Type	0	0	5
Total	97	1,380	5,772

Executive Summary Report

SMOG CHECK Statewide

July 2015

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



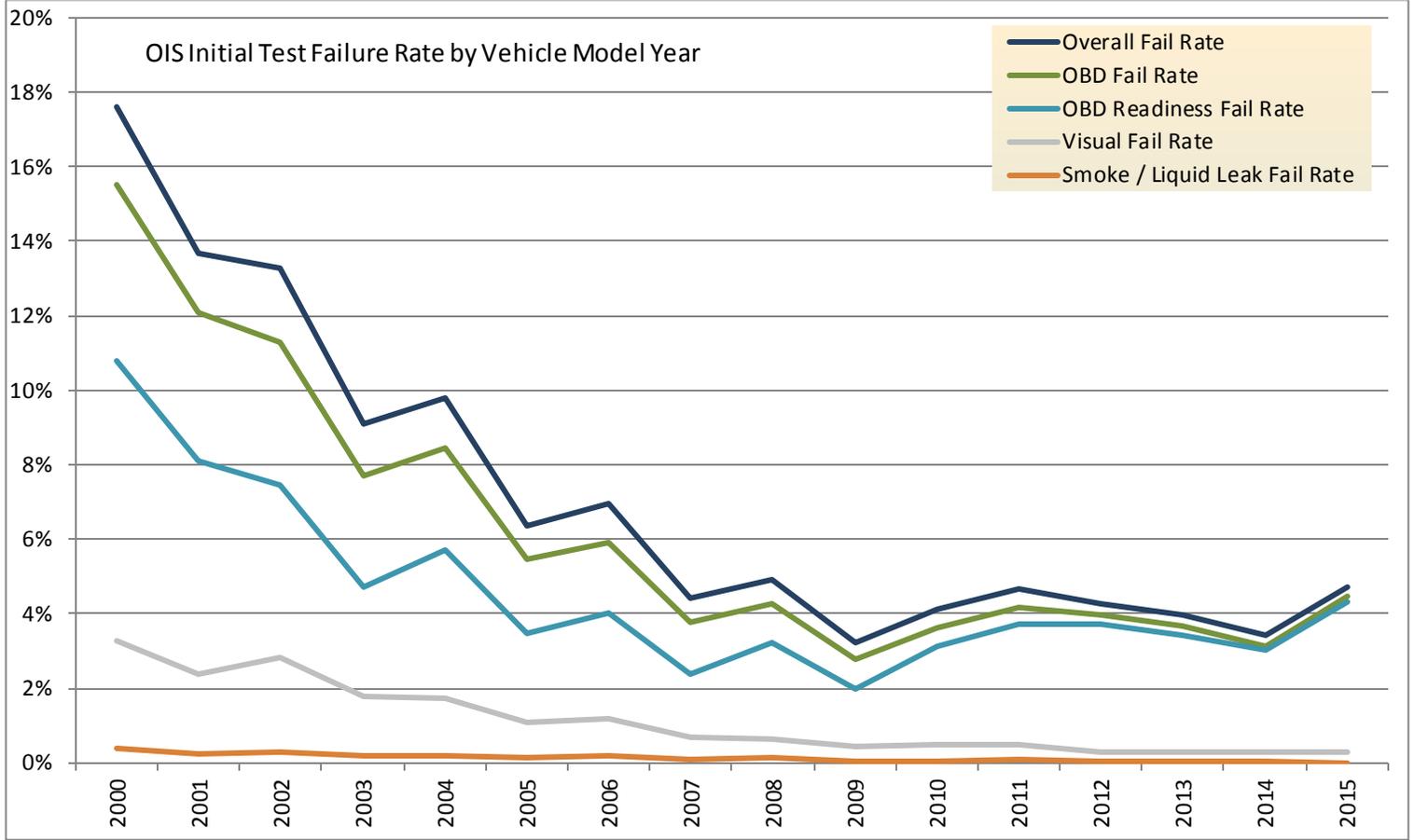
Note: Please see tabular data in Table 17 for BAR-97 tests conducted on other vehicle model years not shown in chart.

Executive Summary Report

SMOG CHECK Statewide

July 2015

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.

Executive Summary Report

SMOG CHECK Statewide July 2015

13. Referee Activity

	OIS Certificates Issued	BAR-97 Certificates Issued
Certificate of Compliance	273	282
Certificate of Non Compliance	0	0
Parts Cost	48	23
Hardship Extensions	1	0
Exempt Vehicle	0	24
Exempted by Directive	4	51
Parts Exemption	11	7
Unknown Outcome	0	0
Permanently Exempt Vehicle	0	0
Temporarily Exempt Vehicle	0	0
Total	337	387

14. Active Technicians

License Type	Technician Count
EA (Test and Repair Enhanced)	4
EB (Test and Repair Basic)	1
EI (Repair Only)	1
EO (Test Only)	2,279
EO (Test and Repair)	5,782
Total	8,067

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	85,013	\$47.84	222,859	\$46.78	307,872	\$47.07
STAR Test Only	156,215	\$47.98	367,999	\$48.94	524,214	\$48.65
Non-STAR Test and Repair	30,915	\$44.50	148,326	\$51.67	179,241	\$50.44
Non-STAR Test Only	5,810	\$40.76	27,117	\$47.53	32,927	\$46.33
Test and Repair/Dealer	695	\$51.13	3,838	\$56.65	4,533	\$55.81
Total	278,648	\$47.41	770,558	\$48.83	1,049,206	\$48.45

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	30	\$62.70	3,741	\$49.88	84,983	\$47.83	219,118	\$46.73
STAR Test Only	3	\$55.28	2,215	\$36.83	156,212	\$47.98	365,784	\$49.01
Non-STAR Test and Repair	94	\$58.61	51,807	\$62.27	30,821	\$44.46	96,519	\$45.99
Non-STAR Test Only	6	\$44.50	3,005	\$43.49	5,804	\$40.76	24,112	\$48.03
Test and Repair/Dealer	0	\$0.00	598	\$59.56	695	\$51.13	3,240	\$56.11
Total	133	\$58.82	61,366	\$59.65	278,515	\$47.40	709,192	\$47.89

Executive Summary Report

SMOG CHECK Statewide

July 2015

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
1963	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	NA
1976	708	197	27.82%	18.50%	7.91%	14.97%	7.91%	NA
1977	904	275	30.42%	19.69%	8.19%	16.37%	9.73%	NA
1978	1,101	317	28.79%	18.62%	7.99%	14.80%	9.72%	NA
1979	1,053	329	31.24%	22.32%	9.50%	15.19%	9.12%	NA
1980	642	188	29.28%	20.40%	9.03%	15.42%	10.12%	NA
1981	759	232	30.57%	19.63%	8.17%	16.60%	9.75%	NA
1982	800	268	33.50%	23.25%	8.88%	15.63%	11.50%	NA
1983	1,122	352	31.37%	22.82%	8.38%	15.60%	9.71%	NA
1984	1,859	602	32.38%	24.10%	8.98%	16.35%	9.04%	NA
1985	2,573	830	32.26%	22.93%	8.98%	14.89%	9.02%	NA
1986	3,542	1,080	30.49%	20.69%	8.13%	15.92%	8.55%	NA
1987	3,980	1,183	29.72%	21.76%	7.19%	13.74%	7.89%	NA
1988	5,050	1,439	28.50%	20.55%	6.53%	12.97%	6.61%	NA
1989	6,814	1,833	26.90%	18.32%	5.55%	13.43%	6.28%	NA
1990	8,458	2,286	27.03%	19.06%	5.70%	12.88%	5.31%	NA
1991	10,116	2,583	25.53%	17.96%	4.92%	11.88%	4.74%	NA
1992	10,380	2,714	26.15%	18.48%	5.13%	12.12%	5.08%	NA
1993	13,264	3,752	28.29%	21.10%	4.54%	11.80%	5.60%	NA
1994	15,711	4,313	27.45%	19.22%	3.79%	12.04%	5.56%	NA
1995	23,598	5,551	23.52%	16.16%	2.81%	9.99%	4.72%	NA
1996	19,721	4,763	24.15%	11.45%	1.58%	14.77%	4.19%	13.80%
1997	35,109	7,275	20.72%	8.47%	1.19%	13.49%	3.28%	12.72%
1998	32,455	6,309	19.44%	7.24%	1.26%	13.11%	3.35%	12.49%
1999	52,213	7,796	14.93%	4.25%	0.75%	10.77%	2.69%	10.31%
2000	579	110	19.00%	5.87%	1.90%	16.06%	1.90%	15.37%
2001	595	75	12.61%	6.22%	1.18%	8.91%	1.85%	8.74%
2002	379	37	9.76%	4.22%	1.58%	7.39%	1.58%	6.60%
2003	675	44	6.52%	2.22%	0.44%	5.04%	0.59%	5.04%
2004	353	28	7.93%	2.27%	0.57%	5.38%	1.70%	5.38%
2005	587	28	4.77%	1.87%	1.36%	3.07%	0.85%	2.90%
2006	414	17	4.11%	1.21%	0.48%	3.62%	0.00%	2.66%
2007	569	18	3.16%	1.58%	0.18%	1.23%	0.35%	1.23%
2008	318	14	4.40%	1.89%	0.63%	3.46%	0.94%	2.83%
2009	197	7	3.55%	1.02%	0.51%	2.54%	0.51%	2.54%
2010	17	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2011	33	5	15.15%	3.03%	0.00%	9.09%	6.06%	9.09%
2012	18	1	5.56%	5.56%	0.00%	0.00%	5.56%	0.00%
2013	27	1	3.70%	3.70%	0.00%	0.00%	3.70%	0.00%
2014	48	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2015	225	2	0.89%	0.89%	0.00%	0.00%	0.89%	0.00%
2016	64	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
All Model Years	257,031	56,854	22.12%	12.19%	2.81%	12.31%	4.35%	6.57%

Note: Some model year 1975 and older vehicles required a Referee inspection (for example, engine changes). 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.

Executive Summary Report

SMOG CHECK Statewide July 2015

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
1993	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1995	5	2	40.00%	40.00%	0.00%	40.00%	0.00%	0.00%
1996	105	10	9.52%	7.62%	1.90%	7.62%	6.67%	0.00%
1997	221	26	11.80%	9.95%	3.62%	9.95%	6.33%	0.00%
1998	503	68	13.50%	11.10%	3.58%	10.50%	6.76%	0.60%
1999	1,364	213	15.60%	14.30%	2.13%	13.50%	9.90%	0.81%
2000	42,682	7,503	17.60%	15.90%	3.29%	15.50%	10.80%	0.39%
2001	78,866	10,840	13.70%	12.30%	2.36%	12.10%	8.10%	0.23%
2002	44,264	5,883	13.30%	11.60%	2.81%	11.30%	7.46%	0.27%
2003	98,435	8,957	9.10%	7.87%	1.78%	7.70%	4.70%	0.17%
2004	43,819	4,292	9.79%	8.63%	1.73%	8.43%	5.69%	0.21%
2005	123,594	7,883	6.38%	5.58%	1.07%	5.45%	3.49%	0.13%
2006	44,475	3,092	6.95%	6.09%	1.17%	5.92%	4.01%	0.17%
2007	120,452	5,312	4.41%	3.86%	0.67%	3.79%	2.38%	0.07%
2008	28,443	1,392	4.89%	4.41%	0.62%	4.28%	3.22%	0.13%
2009	81,423	2,616	3.21%	2.83%	0.44%	2.78%	2.00%	0.05%
2010	12,978	534	4.11%	3.69%	0.49%	3.64%	3.12%	0.05%
2011	15,178	712	4.69%	4.25%	0.46%	4.18%	3.71%	0.07%
2012	10,654	455	4.27%	4.02%	0.28%	3.99%	3.72%	0.03%
2013	13,225	522	3.95%	3.68%	0.29%	3.67%	3.43%	0.02%
2014	9,277	319	3.44%	3.18%	0.29%	3.13%	3.01%	0.05%
2015	4,144	195	4.71%	4.46%	0.27%	4.46%	4.30%	0.00%
2016	96	11	11.50%	11.50%	0.00%	11.50%	11.50%	0.00%
All Model Years	774,204	60,837	7.86%	6.94%	1.36%	6.79%	4.57%	0.15%

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.

Executive Summary Report

SMOG CHECK Statewide July 2015

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).