

Executive Summary Report

Smog Check Statewide January 2019

1. TESTING VOLUME

Testing Volume	All Tests	Failed	Percent (%) Failed
Initial Test	923,842	93,920	10.17%
Total	1,012,180	107,839	10.65%

2. CERTIFICATION VOLUME

Certification Volume	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	823,193	89.11%	100,649	10.89%
Total	896,986	88.62%	115,194	11.38%

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	422,422	88.74%	53,581	11.26%
Non-STAR Test Only	21,614	92.00%	1,879	8.00%
STAR Test and Repair	241,499	88.56%	31,189	11.44%
Non-STAR Test and Repair	133,557	92.63%	10,629	7.37%
Total	819,092	89.38%	97,278	10.62%

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

4. INITIAL TEST FAILURES BY FAILURE TYPE

Initial Test Failure	OIS Failed	OIS Percent (%) Failed	BAR-97 Failed	BAR-97 Percent (%) Failed
All Emissions	NA	NA	15,112	10.22%
All Visual	11,056	1.42%	6,030	4.08%
All Functional	56,414	7.27%	16,093	10.88%
OBDII	55,290	7.13%	9,971	6.74%
Overall	64,626	8.33%	29,294	19.81%

5. INITIAL TEST 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	34,331	74,580	27,476	61,318
Non-Directed	238,357	401,423	214,023	361,104
Total	272,688	476,003	241,499	422,422

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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	274	100	223	66
Non-Directed	143,912	23,393	133,334	21,548
Total	144,186	23,493	133,557	21,614

7. INITIAL TEST FAILURES BY PROGRAM AREA

Program Areas	OIS Initial Tests	OIS Failed	OIS Percent (%) Failed	BAR-97 Initial Tests	BAR-97 Failed	BAR-97 Percent (%) Failed
Enhanced	672,403	56,368	8.38%	116,108	23,439	20.20%
Partial	35,878	2,897	8.07%	8,909	1,948	21.90%
Basic	61,418	4,902	7.98%	18,227	2,671	14.70%
Change of Ownership	6,275	459	7.31%	1,273	292	22.90%
No Program	0	0	0.00%	1	0	0.00%
Unknown	0	0	0.00%	3,350	944	28.20%
Total Program Area	775,974	64,626	8.33%	147,868	29,294	19.80%

8. INITIAL TEST FAILURES BY STATION TYPE

Station Types	OIS Initial Tests	OIS Failed	OIS Percent (%) Failed	BAR-97 Initial Tests	BAR-97 Failed	BAR-97 Percent (%) Failed
STAR Test Only	390,121	35,380	9.07%	85,882	16,874	19.60%
STAR Test Only Suspended	493	36	7.30%	36	10	27.80%
Non-STAR Test Only	20,778	1,358	6.54%	2,715	394	14.50%
STAR Test and Repair	226,757	19,804	8.73%	45,931	10,018	21.80%
STAR Test and Repair Suspended	191	15	7.85%	21	7	33.30%
Non-STAR Test and Repair	131,169	7,436	5.67%	13,017	1,918	14.70%
Test and Repair/Dealer	3,083	211	6.84%	59	5	8.47%
Business Fleet	319	3	0.94%	0	0	0.00%
Permanent Fleet Registered	70	3	4.29%	0	0	0.00%
Referee	312	202	64.70%	156	66	42.30%
Government Fleet	2,681	178	6.64%	51	2	3.92%
Total	775,974	64,626	8.33%	147,868	29,294	19.80%

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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 Test and Repair	121	61	2,086	84	2,352
STAR Test Only	19	0	1,814	32	1,865
STAR Sub-total	140	61	3,900	116	4,217
Non-STAR Test and Repair	506	38	2,169	242	2,955
Non-STAR Test Only	24	8	403	32	467
Non-STAR Sub-total	530	46	2,572	274	3,422
Basic Area Dealer	65	0	0	0	65
Business Fleet	0	0	4	0	4
Permanent Fleet Registered	3	2	51	4	60
Referee	5	0	27	0	32
Government Fleet	41	4	291	13	349
Repair Only	2	0	47	1	50
Unknown Type	0	0	7	0	7
Other Station Sub-Total	116	6	427	18	567
Total	786	113	6,899	408	8,206

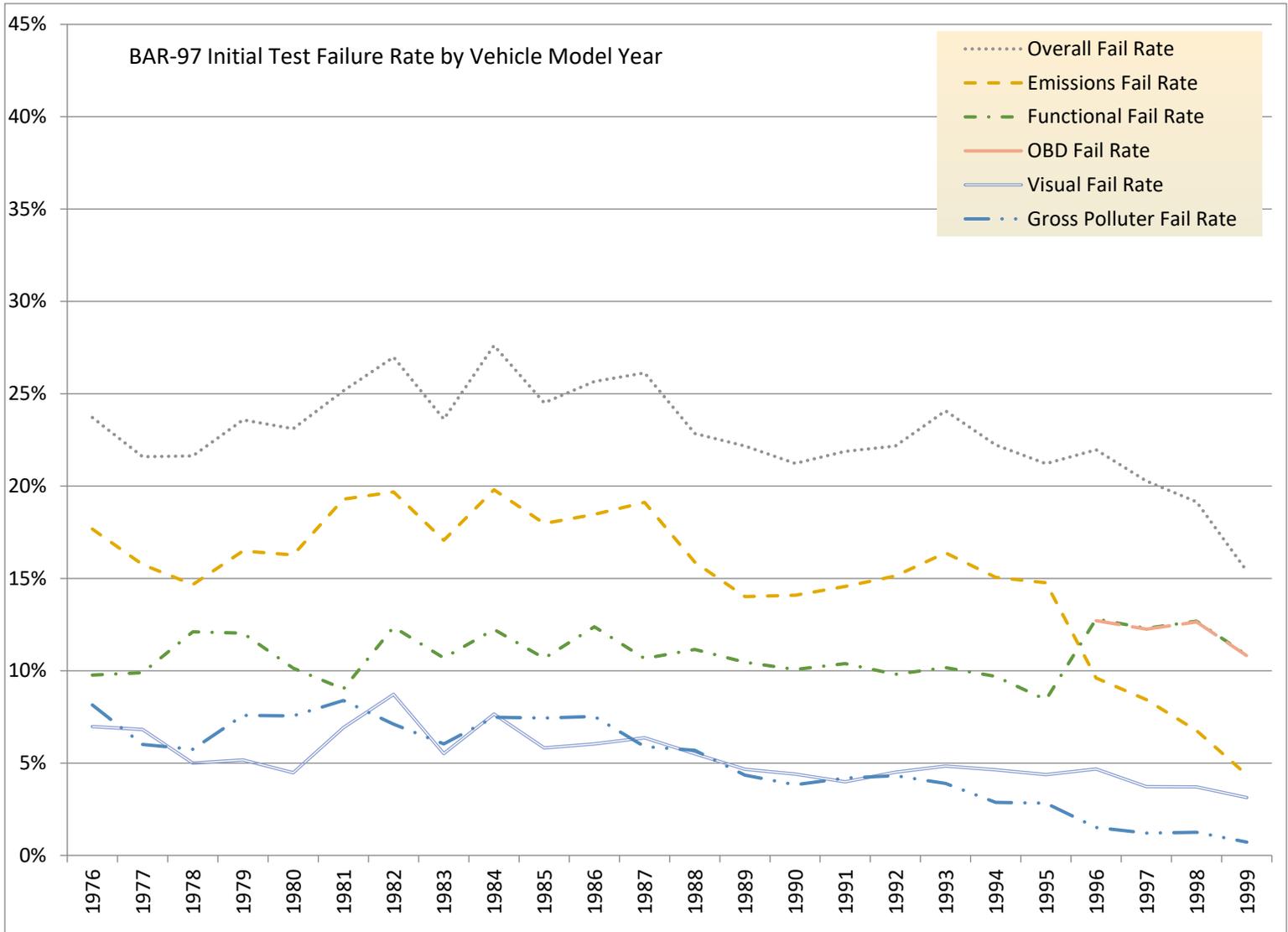
10. NUMBER OF STATIONS CONDUCTING TEST BY EQUIPMENT TYPE

Station Type	BAR-97 Only	OIS Only	BAR-97 & OIS
STAR Test and Repair	0	375	1,891
STAR Test Only	4	207	1,565
<i>STAR Sub-total</i>	4	582	3,456
Non-STAR Test and Repair	0	1,854	438
Non-STAR Test Only	0	138	79
<i>Non-STAR Sub-total</i>	0	1,992	517
Basic Area Dealer	0	56	6
Business Fleet	0	3	0
Permanent Fleet Registered	0	22	0
Referee	0	0	31
Government Fleet	1	151	10
Unknown Type	0	0	7
<i>Other Station Sub-Total</i>	1	232	54
Total	5	2,806	4,027

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11. BAR-97 INITIAL TEST FAILURE RATE BY VEHICLE MODEL YEAR

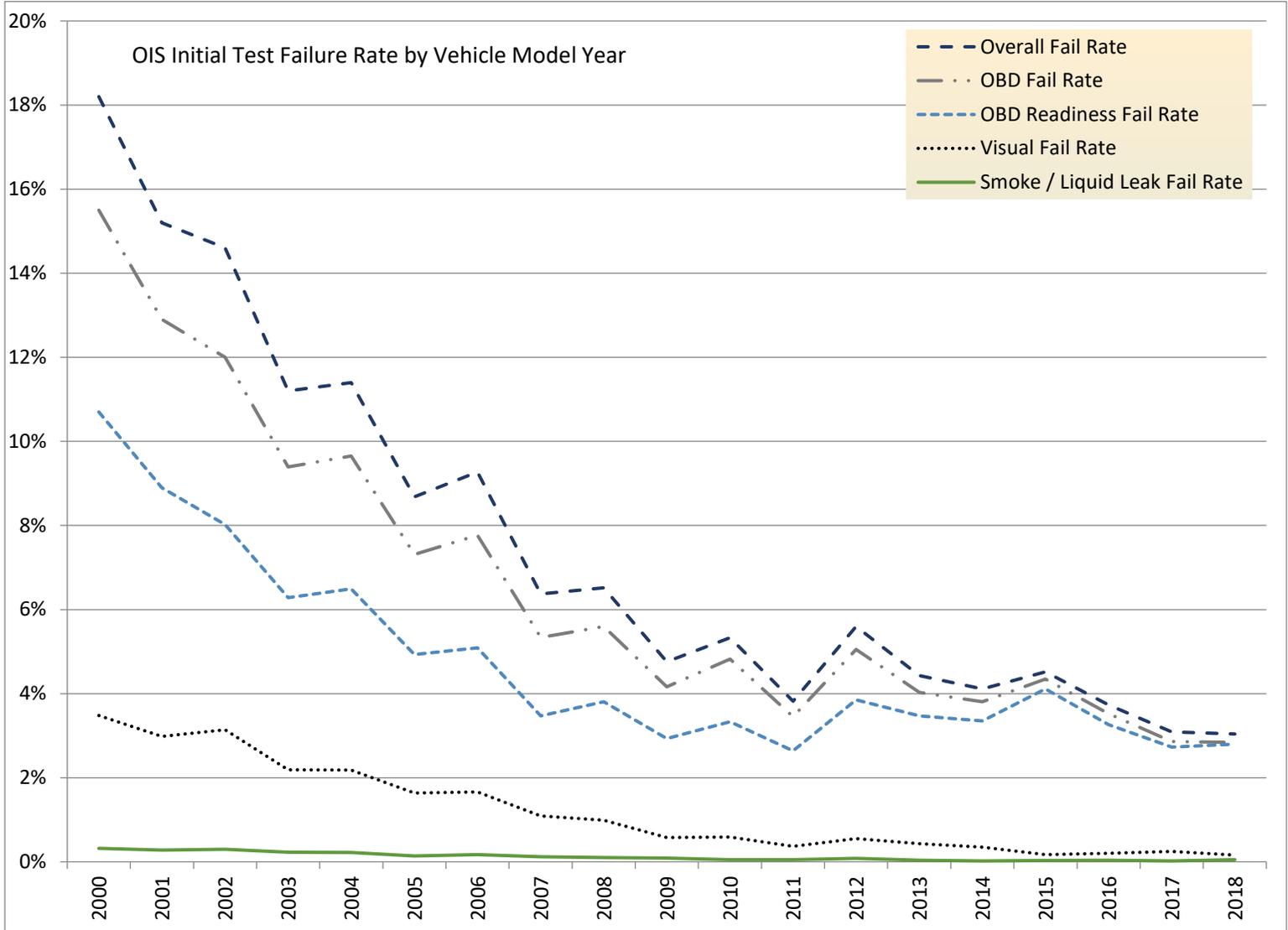


Note: Please see tabular data in Table 18 for BAR-97 tests conducted on other vehicle model years not shown in chart.

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12. OIS INITIAL TEST FAILURE RATE BY VEHICLE MODEL YEAR



Note: Please see tabular data in Table 19 for OIS tests conducted on other vehicle model years not shown in chart.

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13. REFEREE ACTIVITY

Referee Activity	OIS Certificates Issued	BAR-97 Certificates Issued
Certificate of Compliance	305	183
Certificate of Non-Compliance	0	0
Parts Cost	45	12
Hardship Extensions	0	1
Exempt Vehicle	2	20
Exempted by Directive	7	2
Parts Exemption	8	0
Unknown Outcome	0	0
Permanently Exempt Vehicle	0	0
Temporarily Exempt Vehicle	0	0
Total	367	218

14. ACTIVE TECHNICIANS

License Type	Technician Count
EA (Inspect and Repair Enhanced)	0
EB (Inspect and Repair Basic)	1
EI (Repair Only)	0
EO (Inspect Only)	2,476
EO and EI (Inspect and Repair)	3,158
Total	5,635

15. INSPECTION COSTS BY STATION AND TEST TYPE¹

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	45,921	\$54.10	226,404	\$48.09	272,325	\$49.10
STAR Test Only	85,554	\$48.47	389,341	\$48.99	474,895	\$48.89
Non-STAR Test and Repair	12,985	\$50.83	130,673	\$54.89	143,658	\$54.52
Non-STAR Test Only	2,691	\$42.22	20,657	\$43.43	23,348	\$43.29
Test and Repair/Dealer	59	\$54.27	3,083	\$63.24	3,142	\$63.07
Total	147,210	\$50.32	770,158	\$49.63	917,368	\$49.74

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16. INSPECTION COSTS BY STATION AND EQUIPMENT TYPE¹

Station Type	BAR-97 Initial Test Count ²	Average BAR-97 Inspection Cost ²	OIS Initial Test Count ³	Average OIS Inspection Cost ³	BAR-97 Inspection Cost ⁴	Average BAR-97 Inspection Cost ⁴	OIS Initial Test Count ⁴	Average OIS Inspection Cost ⁴
STAR Test and Repair	0	\$0.00	18,691	\$45.84	45,921	\$54.10	207,713	\$48.29
STAR Test Only	1,105	\$28.17	27,396	\$40.92	84,449	\$48.74	361,945	\$49.60
Non-STAR Test and Repair	0	\$0.00	84,794	\$60.16	12,985	\$50.83	45,879	\$45.16
Non-STAR Test Only	0	\$0.00	9,460	\$40.26	2,691	\$42.22	11,197	\$46.11
Test and Repair/Dealer	0	\$0.00	2,770	\$63.37	59	\$54.27	313	\$62.02
Total	1,105	\$28.17	143,111	\$53.35	146,105	\$50.49	627,047	\$48.78

¹Note: Smog Check Inspectors are asked to enter their inspection costs once per month. These costs may or may not include any discounts and may not reflect the actual inspection cost. Additionally, inspection costs entries in excess of \$99 cannot be entered into the BAR-97 software.

²BAR-97 Equipment Only

³OIS Equipment Only

⁴Both Equipment (BAR-97 and OIS)

17. REPAIR COSTS

Repair Station Type	All Cost Ranges	Vehicles Repaired	Average Cost	(All Cost Ranges) Vehicles Repaired	(All Cost Ranges) Average Cost
STAR Repairs (Test and Repair, Non-CAP)	\$1-100	1,012	\$50	4,063	\$422
	\$101-250	959	\$172		
	\$251-500	977	\$367		
	\$501-650	323	\$571		
	Over \$650	792	\$1,205		
Non-STAR Repairs (Test and Repair)	\$1-100	432	\$48	1,581	\$393
	\$101-250	406	\$172		
	\$251-500	391	\$359		
	\$501-650	100	\$572		
	Over \$650	252	\$1,321		
Repair Only	\$1-100	16	\$31	76	\$474
	\$101-250	10	\$178		
	\$251-500	8	\$375		
	\$501-650	1	\$570		
	Over \$650	3	\$1,055		
CAP Repairs	\$1-100	0	\$0	237	\$704
	\$101-250	8	\$207		
	\$251-500	61	\$395		
	\$501-650	56	\$567		
	Over \$650	112	\$976		
Total Repairs	\$1-100	1,460	\$49	5,919	\$424
	\$101-250	1,383	\$172		
	\$251-500	1,437	\$366		
	\$501-650	480	\$571		
	Over \$650	1,159	\$1,207		

Note: Non-CAP repair costs are based solely on Smog Check Inspector entries. The majority of non-CAP repairs are not entered into the repair database and therefore not included in this summary.

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18. 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	430	102	23.72%	17.67%	8.14%	9.77%	6.98%	NA
1977	616	133	21.59%	15.75%	6.01%	9.90%	6.82%	NA
1978	661	143	21.63%	14.67%	5.75%	12.10%	4.99%	NA
1979	831	196	23.59%	16.49%	7.58%	12.03%	5.17%	NA
1980	424	98	23.11%	16.27%	7.55%	10.14%	4.48%	NA
1981	477	120	25.16%	19.29%	8.39%	9.01%	6.92%	NA
1982	493	133	26.98%	19.68%	7.10%	12.37%	8.72%	NA
1983	580	137	23.62%	17.07%	6.03%	10.69%	5.52%	NA
1984	1,177	325	27.61%	19.80%	7.48%	12.23%	7.65%	NA
1985	1,546	379	24.51%	17.98%	7.44%	10.67%	5.82%	NA
1986	2,019	518	25.66%	18.47%	7.53%	12.38%	6.04%	NA
1987	2,308	603	26.13%	19.11%	5.89%	10.66%	6.37%	NA
1988	2,726	623	22.85%	15.88%	5.69%	11.15%	5.50%	NA
1989	3,823	847	22.16%	14.02%	4.34%	10.46%	4.66%	NA
1990	4,609	978	21.22%	14.08%	3.82%	10.07%	4.40%	NA
1991	5,137	1,124	21.88%	14.56%	4.19%	10.38%	3.99%	NA
1992	5,282	1,171	22.17%	15.13%	4.32%	9.81%	4.51%	NA
1993	6,532	1,572	24.07%	16.38%	3.90%	10.17%	4.84%	NA
1994	8,924	1,984	22.23%	15.05%	2.87%	9.69%	4.64%	NA
1995	12,267	2,602	21.21%	14.76%	2.82%	8.43%	4.38%	NA
1996	11,431	2,511	21.97%	9.60%	1.51%	12.80%	4.67%	12.71%
1997	19,272	3,906	20.27%	8.43%	1.21%	12.29%	3.72%	12.25%
1998	20,678	3,960	19.15%	6.76%	1.25%	12.69%	3.71%	12.64%
1999	31,781	4,895	15.40%	4.36%	0.72%	10.85%	3.13%	10.81%
2000	397	45	11.34%	5.54%	3.02%	4.03%	3.53%	4.03%
2001	340	35	10.29%	4.12%	2.06%	5.88%	2.35%	5.88%
2002	285	29	10.18%	5.61%	3.51%	4.91%	1.75%	4.91%
2003	361	32	8.86%	5.82%	1.94%	4.16%	2.22%	3.88%
2004	289	26	9.00%	5.54%	2.42%	5.88%	1.04%	5.88%
2005	407	13	3.19%	1.97%	0.49%	1.23%	0.74%	1.23%
2006	351	14	3.99%	3.13%	1.99%	1.14%	0.00%	1.14%
2007	363	17	4.68%	2.75%	1.10%	2.48%	0.55%	2.48%
2008	217	5	2.30%	0.92%	0.46%	0.92%	0.46%	0.92%
2009	108	2	2.78%	1.85%	1.85%	3.77%	0.00%	1.85%
2010	52	2	3.85%	1.92%	0.00%	1.92%	0.00%	1.92%
2011	232	1	0.43%	0.00%	0.00%	0.00%	0.43%	0.00%
2012	80	3	3.75%	1.25%	0.00%	2.50%	1.25%	2.50%
2013	73	1	1.37%	0.00%	0.00%	1.37%	0.00%	1.37%
2014	39	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2015	39	1	2.56%	2.56%	0.00%	0.00%	0.00%	0.00%
2016	39	3	7.69%	0.00%	0.00%	2.56%	5.13%	2.56%
2017	50	2	4.00%	2.00%	0.00%	0.00%	4.00%	0.00%
2018	63	1	1.59%	1.59%	0.00%	0.00%	1.59%	0.00%
2019	58	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Other	1	1	100.00%	100.00%	0.00%	0.00%	100.00%	0.00%
All Model Years	147,868	29,294	19.81%	10.22%	2.40%	10.88%	4.08%	6.74%

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 20 for Smog Check requirements.

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19. 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
1996	4	1	25.00%	25.00%	0.00%	25.00%	25.00%	0.00%
1997	8	3	37.50%	12.50%	25.00%	12.50%	0.00%	0.00%
1998	200	34	17.00%	14.50%	3.00%	12.50%	6.00%	2.00%
1999	643	115	17.90%	16.30%	3.42%	15.40%	10.60%	0.93%
2000	33,522	6,098	18.20%	15.90%	3.48%	15.50%	10.70%	0.32%
2001	50,738	7,729	15.20%	13.20%	2.98%	12.90%	8.90%	0.28%
2002	40,426	5,886	14.60%	12.40%	3.14%	12.00%	8.02%	0.30%
2003	63,789	7,155	11.20%	9.62%	2.19%	9.39%	6.28%	0.23%
2004	48,485	5,541	11.40%	9.87%	2.18%	9.65%	6.49%	0.22%
2005	73,500	6,379	8.68%	7.45%	1.64%	7.31%	4.93%	0.14%
2006	53,837	4,989	9.27%	7.94%	1.66%	7.77%	5.09%	0.17%
2007	81,035	5,161	6.37%	5.46%	1.09%	5.34%	3.47%	0.12%
2008	48,735	3,176	6.52%	5.71%	0.99%	5.60%	3.81%	0.10%
2009	46,892	2,231	4.76%	4.25%	0.58%	4.16%	2.93%	0.09%
2010	33,868	1,804	5.33%	4.87%	0.59%	4.82%	3.33%	0.05%
2011	72,154	2,755	3.82%	3.50%	0.37%	3.45%	2.64%	0.05%
2012	23,271	1,304	5.60%	5.13%	0.55%	5.05%	3.85%	0.08%
2013	17,851	791	4.43%	4.07%	0.43%	4.03%	3.47%	0.04%
2014	17,590	723	4.11%	3.84%	0.35%	3.81%	3.35%	0.02%
2015	31,963	1,445	4.52%	4.38%	0.17%	4.35%	4.11%	0.03%
2016	14,278	533	3.73%	3.56%	0.20%	3.52%	3.26%	0.04%
2017	12,609	390	3.09%	2.88%	0.25%	2.86%	2.73%	0.02%
2018	9,225	280	3.04%	2.89%	0.16%	2.84%	2.80%	0.05%
2019	1,342	98	7.30%	7.08%	0.22%	7.08%	6.78%	0.00%
Other	9	5	55.60%	22.20%	55.60%	22.20%	22.20%	0.00%
All Model Years	775,974	64,626	8.33%	7.27%	1.42%	7.13%	4.98%	0.14%

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 20 for Smog Check Requirements.

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20. SMOG CHECK REQUIREMENTS BY VEHICLE TYPE

Fuel Type	Model-Year	GVWR ¹	OBD II Equipped?	Smog Check Required None	Smog Check Required OIS Test	Smog Check Required 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	
		No				x
		Over 14,000	All			x
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	
		No				x
		Over 14,000	All		x	
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			
Motorcycle	All	All	All			
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 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 OBD II systems that may require the BAR-97 test.

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