

Executive Summary Report

Smog Check Statewide March 2020

1. TESTING VOLUME

Testing Volume	All Tests	Failed	Percent (%) Failed
Initial Test	776,867	79,984	10.30%
Total	854,625	92,453	10.82%

2. CERTIFICATION VOLUME

Certification Volume	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	690,886	88.93%	85,981	11.07%
Total	755,497	88.40%	99,128	11.60%

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	359,011	88.81%	45,224	11.19%
Non-STAR Test Only	15,991	90.46%	1,687	9.54%
STAR Test and Repair	202,085	88.80%	25,482	11.20%
Non-STAR Test and Repair	108,249	91.99%	9,422	8.01%
Total	685,336	89.34%	81,815	10.66%

*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	11,822	10.93%
All Visual	9,103	1.36%	3,908	3.61%
All Functional	51,793	7.75%	12,062	11.15%
OBDII	50,882	7.61%	7,281	6.73%
Overall	57,979	8.67%	22,005	20.34%

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	25,212	56,111	20,235	46,252
Non-Directed	202,355	348,124	181,850	312,759
Total	227,567	404,235	202,085	359,011

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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	230	47	170	33
Non-Directed	117,441	17,631	108,079	15,958
Total	117,671	17,678	108,249	15,991

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	572,171	50,020	8.74%	84,912	17,453	20.60%
Partial	35,067	3,047	8.69%	7,492	1,754	23.40%
Basic	56,059	4,460	7.96%	11,444	1,831	16.00%
Change of Ownership	5,389	452	8.39%	679	168	24.70%
No Program	0	0	0.00%	1	1	100.00%
Unknown	0	0	0.00%	3,653	798	21.80%
Total Program Area	668,686	57,979	8.67%	108,181	22,005	20.30%

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	340,734	31,671	9.29%	63,501	12,570	19.80%
STAR Test Only Suspended	2,405	190	7.90%	205	40	19.50%
Non-STAR Test Only	15,569	1,250	8.03%	2,109	314	14.90%
STAR Test and Repair	195,034	17,211	8.82%	32,533	7,318	22.50%
STAR Test and Repair Suspended	664	62	9.34%	78	18	23.10%
Non-STAR Test and Repair	109,502	7,103	6.49%	8,169	1,365	16.70%
Test and Repair/Dealer	2,310	124	5.37%	3	1	33.30%
Business Fleet	275	33	12.00%	0	0	0.00%
Permanent Fleet Registered	20	0	0.00%	0	0	0.00%
Referee	285	239	83.90%	171	97	56.70%
Government Fleet	1,888	96	5.08%	1,412	282	20.00%
Total	668,686	57,979	8.67%	108,181	22,005	20.30%

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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	107	48	1,883	76	2,114
STAR Test Only	16	1	1,703	34	1,754
STAR Sub-total	123	49	3,586	110	3,868
Non-STAR Test and Repair	496	45	2,157	243	2,941
Non-STAR Test Only	27	7	383	32	449
Non-STAR Sub-total	523	52	2,540	275	3,390
Basic Area Dealer	61	0	0	0	61
Business Fleet	0	0	4	0	4
Permanent Fleet Registered	3	2	46	4	55
Referee	5	0	27	0	32
Government Fleet	41	5	300	13	359
Repair Only	2	0	43	1	46
Unknown Type	1	0	25	0	26
Other Station Sub-Total	113	7	445	18	583
Total	759	108	6,571	403	7,841

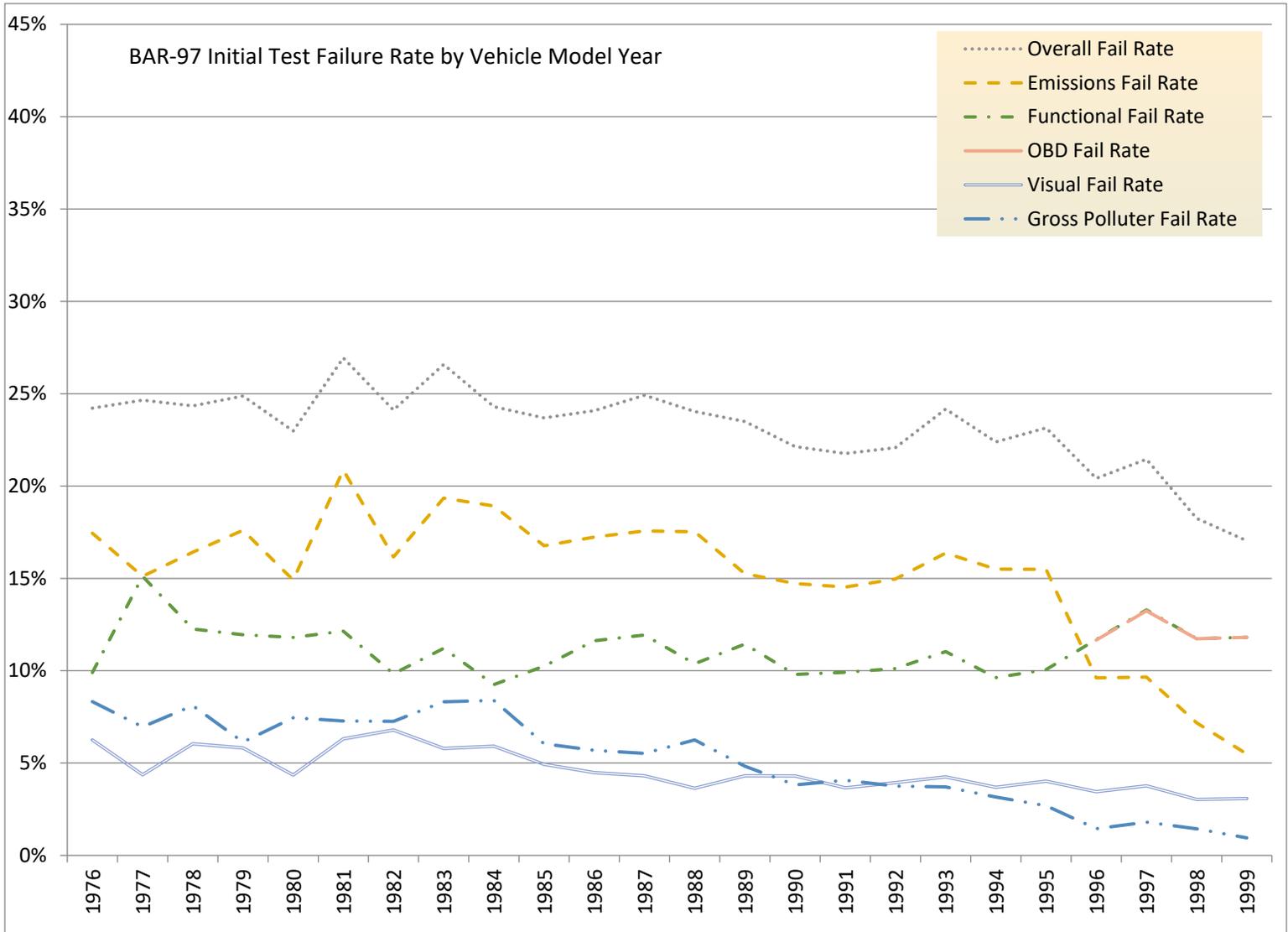
10. NUMBER OF STATIONS CONDUCTING TEST BY EQUIPMENT TYPE

Station Type	BAR-97 Only	OIS Only	BAR-97 & OIS
STAR Test and Repair	0	170	1,876
STAR Test Only	1	61	1,645
<i>STAR Sub-total</i>	1	231	3,521
Non-STAR Test and Repair	1	1,833	409
Non-STAR Test Only	0	112	87
<i>Non-STAR Sub-total</i>	1	1,945	496
Basic Area Dealer	0	53	2
Business Fleet	0	3	0
Permanent Fleet Registered	0	11	0
Referee	0	1	30
Government Fleet	7	130	36
Unknown Type	0	3	19
<i>Other Station Sub-Total</i>	7	201	87
Total	9	2,377	4,104

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

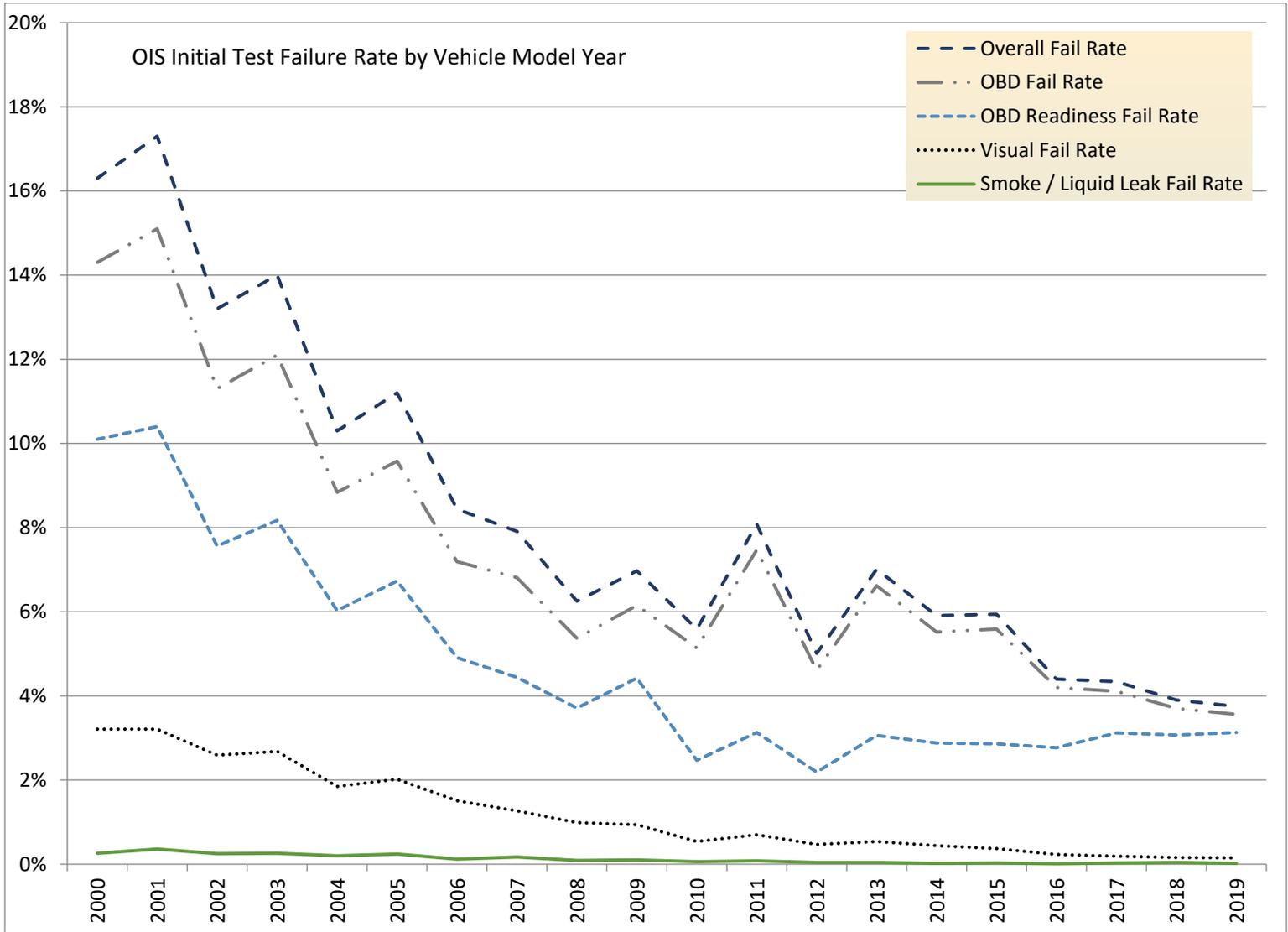


Note: Please see tabular data in Table 18 for BAR-97 tests conducted on other vehicle model years not shown in chart.

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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	161	145
Certificate of Non-Compliance	0	0
Parts Cost	18	2
Hardship Extensions	0	0
Exempt Vehicle	0	8
Exempted by Directive	3	0
Parts Exemption	4	1
Unknown Outcome	0	0
Permanently Exempt Vehicle	0	0
Temporarily Exempt Vehicle	0	0
Total	186	156

14. ACTIVE TECHNICIANS

License Type	Technician Count
EA (Inspect and Repair Enhanced)	0
EB (Inspect and Repair Basic)	0
EI (Repair Only)	0
EO (Inspect Only)	2,693
EO and EI (Inspect and Repair)	2,904
Total	5,597

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	34,007	\$55.47	193,793	\$50.99	227,800	\$51.66
STAR Test Only	66,032	\$49.93	335,334	\$51.27	401,366	\$51.05
Non-STAR Test and Repair	8,541	\$54.83	106,024	\$55.83	114,565	\$55.76
Non-STAR Test Only	2,200	\$43.50	15,459	\$43.43	17,659	\$43.44
Test and Repair/Dealer	3	\$64.92	2,276	\$65.15	2,279	\$65.15
Total	110,783	\$51.88	652,886	\$51.79	763,669	\$51.81

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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	7,371	\$48.03	34,007	\$55.47	186,422	\$51.11
STAR Test Only	8	\$41.75	5,879	\$45.37	66,024	\$49.94	329,455	\$51.38
Non-STAR Test and Repair	0	\$0.00	64,385	\$62.32	8,541	\$54.83	41,639	\$45.80
Non-STAR Test Only	0	\$0.00	6,419	\$42.89	2,200	\$43.50	9,040	\$43.82
Test and Repair/Dealer	0	\$0.00	2,214	\$65.15	3	\$64.92	62	\$65.12
Total	8	\$41.75	86,268	\$58.57	110,775	\$51.88	566,618	\$50.76

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	1,001	\$51	4,466	\$450
	\$101-250	997	\$170		
	\$251-500	1,117	\$363		
	\$501-650	390	\$573		
	Over \$650	961	\$1,207		
Non-STAR Repairs (Test and Repair)	\$1-100	306	\$48	1,246	\$437
	\$101-250	338	\$170		
	\$251-500	274	\$364		
	\$501-650	79	\$570		
	Over \$650	249	\$1,318		
Repair Only	\$1-100	0	\$0	0	\$0
	\$101-250	0	\$0		
	\$251-500	0	\$0		
	\$501-650	0	\$0		
	Over \$650	0	\$0		
CAP Repairs	\$1-100	0	\$0	112	\$779
	\$101-250	3	\$228		
	\$251-500	19	\$397		
	\$501-650	19	\$585		
	Over \$650	71	\$956		
Total Repairs	\$1-100	1,307	\$51	5,824	\$454
	\$101-250	1,338	\$170		
	\$251-500	1,410	\$363		
	\$501-650	488	\$573		
	Over \$650	1,281	\$1,215		

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	384	93	24.22%	17.45%	8.33%	9.90%	6.25%	NA
1977	503	124	24.65%	15.11%	6.96%	15.11%	4.37%	NA
1978	530	129	24.34%	16.42%	8.11%	12.26%	6.04%	NA
1979	619	154	24.88%	17.61%	6.14%	11.95%	5.82%	NA
1980	322	74	22.98%	14.91%	7.45%	11.80%	4.35%	NA
1981	412	111	26.94%	20.87%	7.28%	12.14%	6.31%	NA
1982	427	103	24.12%	16.16%	7.26%	9.84%	6.79%	NA
1983	553	147	26.58%	19.35%	8.32%	11.21%	5.79%	NA
1984	930	226	24.30%	18.92%	8.39%	9.25%	5.91%	NA
1985	1,258	298	23.69%	16.77%	6.04%	10.25%	4.93%	NA
1986	1,653	398	24.08%	17.24%	5.69%	11.62%	4.48%	NA
1987	1,810	451	24.92%	17.57%	5.52%	11.93%	4.31%	NA
1988	2,225	535	24.04%	17.53%	6.25%	10.38%	3.64%	NA
1989	3,042	715	23.50%	15.25%	4.83%	11.44%	4.31%	NA
1990	3,532	782	22.14%	14.72%	3.82%	9.80%	4.30%	NA
1991	4,204	915	21.76%	14.53%	4.07%	9.92%	3.66%	NA
1992	4,162	919	22.08%	14.97%	3.75%	10.12%	3.94%	NA
1993	5,010	1,211	24.17%	16.37%	3.71%	11.04%	4.25%	NA
1994	6,669	1,493	22.39%	15.50%	3.16%	9.63%	3.69%	NA
1995	7,404	1,714	23.15%	15.49%	2.69%	10.06%	4.02%	NA
1996	9,837	2,009	20.42%	9.61%	1.45%	11.69%	3.45%	11.66%
1997	12,216	2,620	21.45%	9.66%	1.80%	13.29%	3.77%	13.24%
1998	17,727	3,236	18.25%	7.18%	1.44%	11.74%	3.03%	11.73%
1999	19,130	3,260	17.04%	5.49%	0.95%	11.81%	3.08%	11.81%
2000	354	63	17.80%	10.73%	3.95%	8.47%	3.67%	8.47%
2001	217	40	18.43%	7.37%	2.76%	13.82%	3.23%	13.82%
2002	285	22	7.72%	3.16%	1.05%	5.26%	1.40%	5.26%
2003	259	35	13.51%	5.02%	1.16%	8.88%	3.86%	8.88%
2004	419	28	6.68%	2.86%	0.48%	3.82%	0.95%	3.82%
2005	253	22	8.70%	3.56%	1.19%	7.11%	0.40%	7.11%
2006	426	29	6.81%	3.05%	0.70%	3.76%	1.41%	3.76%
2007	202	11	5.45%	1.98%	0.50%	3.47%	0.99%	3.47%
2008	282	11	3.90%	2.13%	1.42%	2.13%	0.71%	2.13%
2009	77	2	12.99%	3.90%	0.00%	3.77%	2.60%	9.09%
2010	87	2	2.30%	1.15%	0.00%	2.30%	0.00%	2.30%
2011	87	3	3.45%	0.00%	0.00%	3.45%	0.00%	3.45%
2012	227	6	2.64%	0.44%	0.00%	1.32%	0.88%	1.32%
2013	39	2	5.13%	0.00%	0.00%	5.13%	5.13%	5.13%
2014	53	2	3.77%	1.89%	0.00%	0.00%	1.89%	0.00%
2015	56	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2016	32	1	3.13%	0.00%	0.00%	0.00%	3.13%	0.00%
2017	38	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	37	1	2.70%	0.00%	0.00%	0.00%	2.70%	0.00%
2019	132	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2020	60	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Other	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
All Model Years	108,181	22,005	20.34%	10.93%	2.60%	11.15%	3.61%	6.73%

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	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1997	7	2	28.60%	28.60%	0.00%	28.60%	28.60%	0.00%
1998	193	25	13.00%	10.90%	4.15%	9.33%	2.07%	1.55%
1999	704	98	13.90%	12.10%	3.13%	11.80%	6.68%	0.28%
2000	33,097	5,410	16.30%	14.60%	3.21%	14.30%	10.10%	0.26%
2001	26,381	4,573	17.30%	15.50%	3.21%	15.10%	10.40%	0.36%
2002	42,380	5,591	13.20%	11.50%	2.59%	11.30%	7.56%	0.25%
2003	32,028	4,491	14.00%	12.40%	2.68%	12.10%	8.17%	0.26%
2004	55,919	5,782	10.30%	9.03%	1.85%	8.84%	6.03%	0.20%
2005	37,987	4,261	11.20%	9.82%	2.02%	9.58%	6.73%	0.24%
2006	64,594	5,450	8.44%	7.31%	1.51%	7.19%	4.91%	0.12%
2007	41,545	3,287	7.91%	6.97%	1.27%	6.81%	4.44%	0.17%
2008	57,423	3,590	6.25%	5.47%	0.99%	5.37%	3.71%	0.09%
2009	20,608	1,436	6.97%	6.25%	0.94%	6.15%	4.42%	0.10%
2010	51,495	2,877	5.59%	5.20%	0.54%	5.14%	2.47%	0.06%
2011	24,537	1,983	8.08%	7.55%	0.70%	7.47%	3.13%	0.08%
2012	85,365	4,280	5.01%	4.65%	0.47%	4.61%	2.19%	0.04%
2013	12,894	904	7.01%	6.66%	0.54%	6.62%	3.06%	0.04%
2014	13,506	798	5.91%	5.55%	0.44%	5.52%	2.88%	0.02%
2015	14,706	874	5.94%	5.62%	0.37%	5.59%	2.86%	0.03%
2016	20,278	892	4.40%	4.21%	0.23%	4.20%	2.77%	0.01%
2017	12,423	539	4.34%	4.15%	0.19%	4.11%	3.12%	0.03%
2018	9,928	387	3.90%	3.74%	0.16%	3.70%	3.07%	0.04%
2019	9,183	344	3.75%	3.58%	0.15%	3.56%	3.13%	0.02%
2020	1,495	102	6.82%	6.76%	0.07%	6.76%	5.95%	0.00%
2021	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Other	8	3	37.50%	0.00%	12.50%	0.00%	0.00%	0.00%

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).