

# Executive Summary Report

## Smog Check Statewide April 2019

### 1. TESTING VOLUME

Testing Volume	All Tests	Failed	Percent (%) Failed
Initial Test	893,788	92,108	10.31%
Total	984,810	106,392	10.80%

### 2. CERTIFICATION VOLUME

Certification Volume	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	794,616	88.90%	99,172	11.10%
Total	870,609	88.40%	114,201	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	413,364	88.55%	53,445	11.45%
Non-STAR Test Only	19,367	91.16%	1,877	8.84%
STAR Test and Repair	229,705	88.57%	29,650	11.43%
Non-STAR Test and Repair	128,544	92.56%	10,330	7.44%
Total	790,980	89.25%	95,302	10.75%

\*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	15,524	10.11%
All Visual	10,608	1.43%	6,007	3.91%
All Functional	53,903	7.28%	16,493	10.74%
OBDII	52,890	7.14%	10,106	6.58%
Overall	62,231	8.41%	29,877	19.46%

### 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	33,287	76,300	26,724	63,023
Non-Directed	226,068	390,509	202,981	350,341
Total	259,355	466,809	229,705	413,364

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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	264	77	209	60
Non-Directed	138,610	21,167	128,335	19,307
Total	138,874	21,244	128,544	19,367

### 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	641,014	54,463	8.50%	119,990	23,707	19.80%
Partial	35,030	2,783	7.94%	9,168	2,073	22.60%
Basic	57,659	4,483	7.78%	18,579	2,765	14.90%
Change of Ownership	6,582	502	7.63%	1,476	329	22.30%
No Program	0	0	0.00%	1	0	0.00%
Unknown	0	0	0.00%	4,289	1,003	23.40%
Total Program Area	740,285	62,231	8.41%	153,503	29,877	19.50%

### 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	375,859	34,899	9.29%	90,950	17,304	19.00%
STAR Test Only Suspended	421	26	6.18%	72	19	26.40%
Non-STAR Test Only	18,867	1,392	7.38%	2,377	361	15.20%
STAR Test and Repair	213,222	18,287	8.58%	46,133	10,010	21.70%
STAR Test and Repair Suspended	75	2	2.67%	7	0	0.00%
Non-STAR Test and Repair	125,674	7,071	5.63%	13,200	2,028	15.40%
Test and Repair/Dealer	2,733	149	5.45%	10	0	0.00%
Business Fleet	394	7	1.78%	0	0	0.00%
Permanent Fleet Registered	66	4	6.06%	0	0	0.00%
Referee	297	245	82.50%	125	57	45.60%
Government Fleet	2,677	149	5.57%	629	98	15.60%
Total	740,285	62,231	8.41%	153,503	29,877	19.50%

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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	118	51	1,973	82	2,224
STAR Test Only	18	1	1,756	33	1,808
STAR Sub-total	136	52	3,729	115	4,032
Non-STAR Test and Repair	502	45	2,232	240	3,019
Non-STAR Test Only	22	7	459	33	521
Non-STAR Sub-total	524	52	2,691	273	3,540
Basic Area Dealer	64	0	0	0	64
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	293	13	351
Repair Only	2	0	45	1	48
Unknown Type	0	0	10	0	10
Other Station Sub-Total	115	6	430	18	569
<b>Total</b>	<b>775</b>	<b>110</b>	<b>6,850</b>	<b>406</b>	<b>8,141</b>

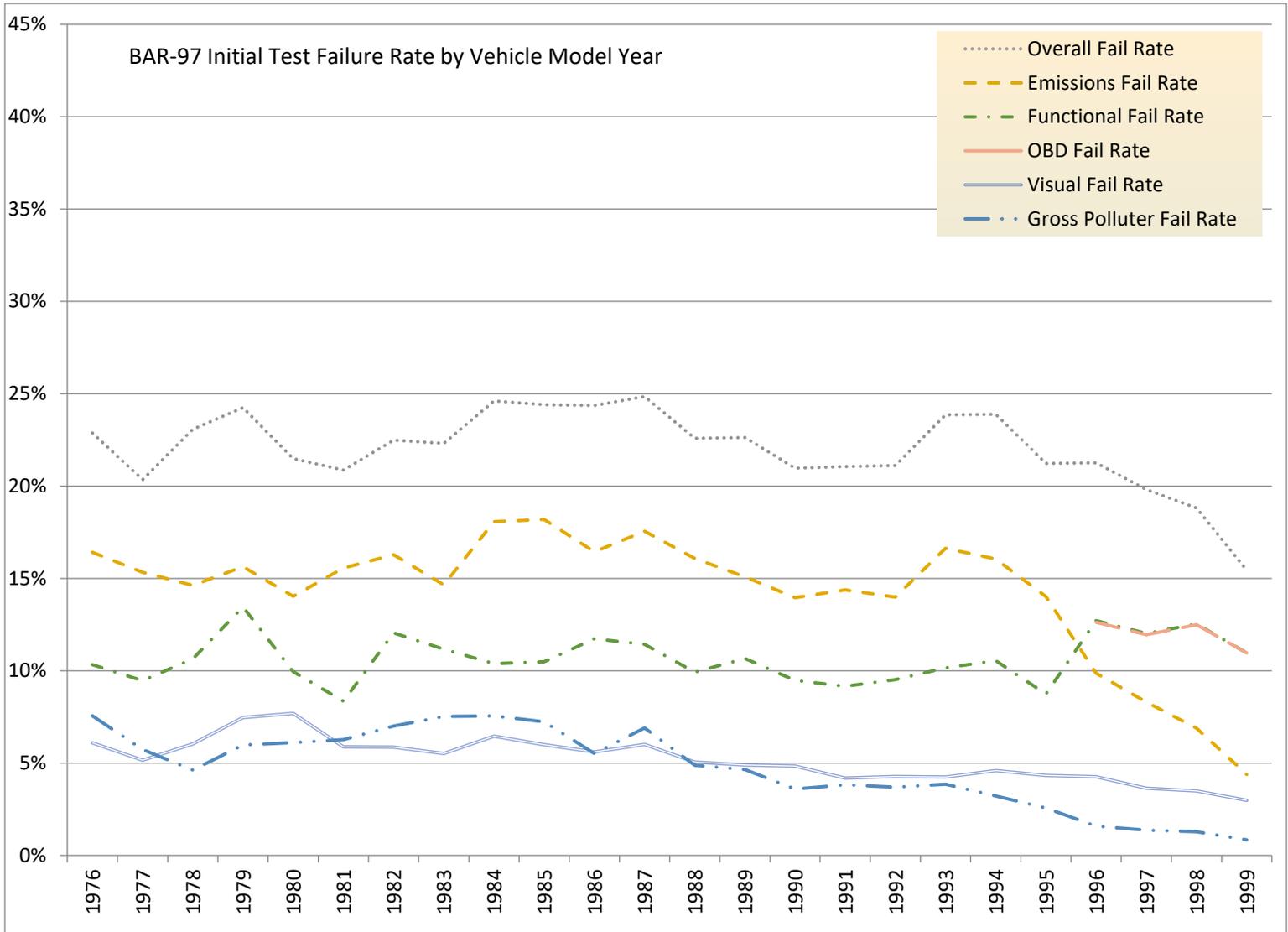
### 10. NUMBER OF STATIONS CONDUCTING TEST BY EQUIPMENT TYPE

Station Type	BAR-97 Only	OIS Only	BAR-97 & OIS
STAR Test and Repair	0	223	1,931
STAR Test Only	5	101	1,643
<i>STAR Sub-total</i>	5	324	3,574
Non-STAR Test and Repair	1	1,907	437
Non-STAR Test Only	1	142	76
<i>Non-STAR Sub-total</i>	2	2,049	513
Basic Area Dealer	0	55	4
Business Fleet	0	2	0
Permanent Fleet Registered	0	22	0
Referee	0	0	31
Government Fleet	2	147	28
Unknown Type	0	0	8
<i>Other Station Sub-Total</i>	2	226	71
<b>Total</b>	<b>9</b>	<b>2,599</b>	<b>4,158</b>

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

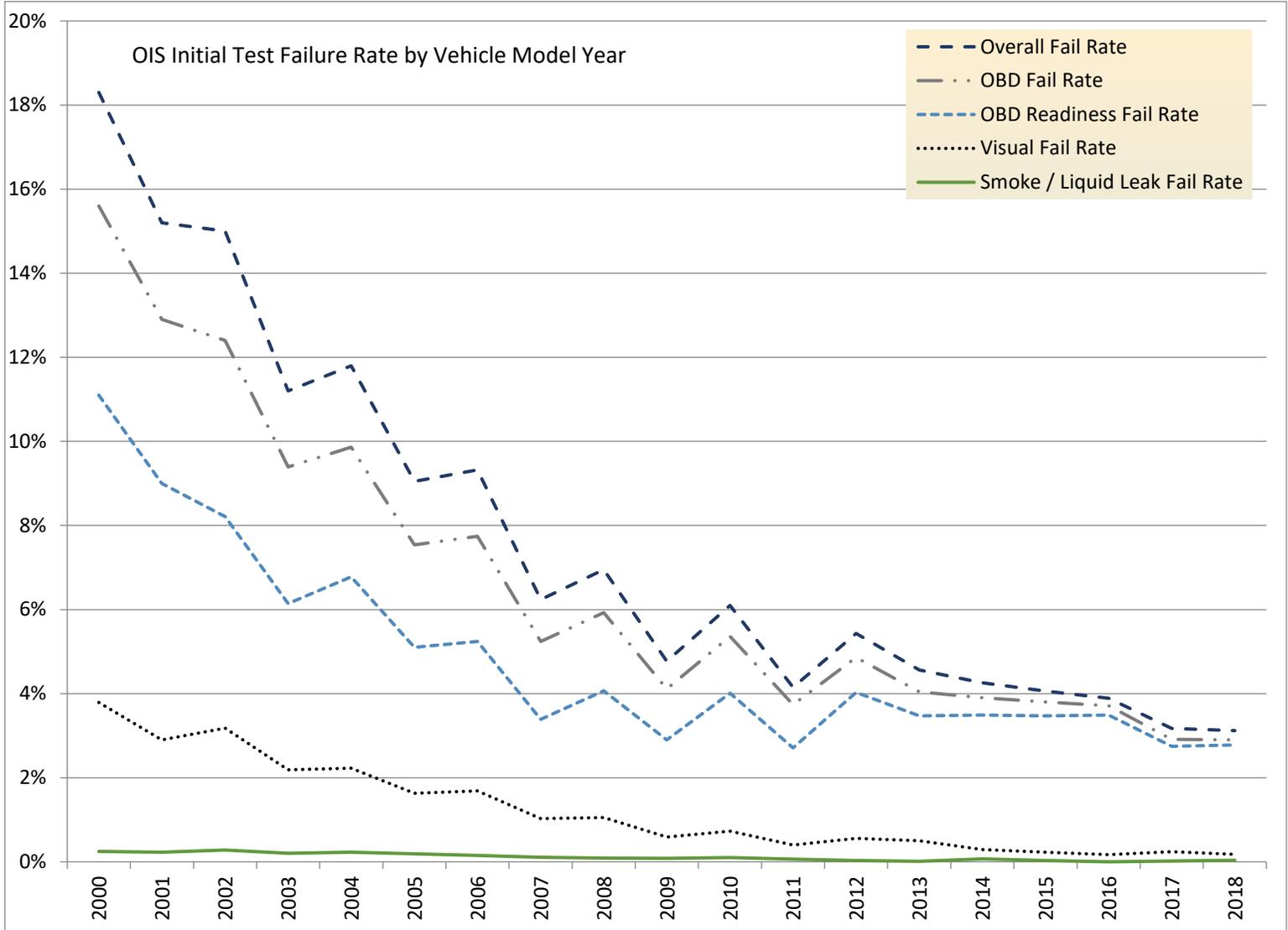


Note: Please see tabular data in Table 18 for BAR-97 tests conducted on other vehicle model years not shown in chart.

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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	190	159
Certificate of Non-Compliance	0	0
Parts Cost	44	12
Hardship Extensions	0	0
Exempt Vehicle	0	20
Exempted by Directive	8	0
Parts Exemption	2	0
Unknown Outcome	0	0
Permanently Exempt Vehicle	0	0
Temporarily Exempt Vehicle	0	0
Total	244	191

### 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)	2,587
EO and EI (Inspect and Repair)	3,227
Total	5,815

### 15. INSPECTION COSTS BY STATION AND TEST TYPE<sup>1</sup>

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	46,086	\$54.79	212,756	\$49.33	258,842	\$50.30
STAR Test Only	90,640	\$49.00	374,322	\$48.22	464,962	\$48.38
Non-STAR Test and Repair	13,198	\$51.94	124,950	\$54.94	138,148	\$54.66
Non-STAR Test Only	2,360	\$43.51	18,725	\$47.35	21,085	\$46.92
Test and Repair/Dealer	10	\$69.66	2,733	\$62.86	2,743	\$62.89
Total	152,294	\$50.92	733,486	\$49.72	885,780	\$49.93

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### 16. INSPECTION COSTS BY STATION AND EQUIPMENT TYPE<sup>1</sup>

Station Type	BAR-97 Initial Test Count <sup>2</sup>	Average BAR-97 Inspection Cost <sup>2</sup>	OIS Initial Test Count <sup>3</sup>	Average OIS Inspection Cost <sup>3</sup>	BAR-97 Inspection Cost <sup>4</sup>	Average BAR-97 Inspection Cost <sup>4</sup>	OIS Initial Test Count <sup>4</sup>	Average OIS Inspection Cost <sup>4</sup>
STAR Test and Repair	0	\$0.00	10,933	\$45.54	46,086	\$54.79	201,823	\$49.54
STAR Test Only	1,296	\$37.82	12,224	\$40.14	89,344	\$49.16	362,098	\$48.50
Non-STAR Test and Repair	5	\$58.00	81,917	\$59.85	13,193	\$51.94	43,033	\$45.61
Non-STAR Test Only	2	\$34.75	8,457	\$41.89	2,358	\$43.51	10,268	\$51.84
Test and Repair/Dealer	0	\$0.00	2,579	\$62.20	10	\$69.66	154	\$73.95
Total	1,303	\$37.89	116,110	\$55.17	150,991	\$51.04	617,376	\$48.70

<sup>1</sup>Note: 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.

<sup>2</sup>BAR-97 Equipment Only

<sup>3</sup>OIS Equipment Only

<sup>4</sup>Both 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	1,355	\$49	5,417	\$416
	\$101-250	1,219	\$172		
	\$251-500	1,405	\$364		
	\$501-650	405	\$569		
	Over \$650	1,033	\$1,199		
Non-STAR Repairs (Test and Repair)	\$1-100	392	\$48	1,381	\$382
	\$101-250	353	\$168		
	\$251-500	325	\$363		
	\$501-650	97	\$577		
	Over \$650	214	\$1,289		
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	224	\$753
	\$101-250	6	\$212		
	\$251-500	49	\$406		
	\$501-650	54	\$591		
	Over \$650	115	\$1,004		
Total Repairs	\$1-100	1,747	\$49	7,022	\$420
	\$101-250	1,578	\$171		
	\$251-500	1,779	\$365		
	\$501-650	556	\$572		
	Over \$650	1,362	\$1,197		

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	542	124	22.88%	16.42%	7.56%	10.33%	6.09%	NA
1977	698	142	20.34%	15.33%	5.73%	9.46%	5.16%	NA
1978	780	180	23.08%	14.62%	4.62%	10.64%	6.03%	NA
1979	870	211	24.25%	15.63%	5.98%	13.45%	7.47%	NA
1980	442	95	21.49%	14.03%	6.11%	9.95%	7.69%	NA
1981	527	110	20.87%	15.56%	6.26%	8.35%	5.88%	NA
1982	614	138	22.48%	16.29%	7.00%	12.05%	5.86%	NA
1983	744	166	22.31%	14.65%	7.53%	11.16%	5.51%	NA
1984	1,272	313	24.61%	18.08%	7.55%	10.38%	6.45%	NA
1985	1,754	428	24.40%	18.19%	7.24%	10.49%	5.99%	NA
1986	2,250	548	24.36%	16.44%	5.51%	11.73%	5.60%	NA
1987	2,547	633	24.85%	17.55%	6.91%	11.43%	6.01%	NA
1988	2,892	653	22.58%	16.08%	4.88%	9.92%	5.05%	NA
1989	4,043	915	22.63%	15.09%	4.65%	10.66%	4.90%	NA
1990	4,894	1,026	20.96%	13.96%	3.60%	9.48%	4.84%	NA
1991	5,701	1,200	21.05%	14.37%	3.82%	9.16%	4.19%	NA
1992	5,547	1,171	21.11%	13.99%	3.70%	9.52%	4.27%	NA
1993	6,760	1,613	23.86%	16.63%	3.85%	10.15%	4.25%	NA
1994	8,597	2,054	23.89%	16.05%	3.22%	10.55%	4.59%	NA
1995	12,445	2,642	21.23%	14.02%	2.56%	8.74%	4.33%	NA
1996	11,096	2,359	21.26%	9.86%	1.58%	12.71%	4.26%	12.62%
1997	20,236	4,009	19.81%	8.30%	1.36%	12.02%	3.64%	11.95%
1998	19,969	3,757	18.81%	6.89%	1.28%	12.52%	3.49%	12.49%
1999	32,707	5,050	15.44%	4.38%	0.84%	10.97%	2.98%	10.96%
2000	528	67	12.69%	5.30%	2.84%	7.20%	2.84%	7.01%
2001	528	49	9.28%	5.49%	2.46%	5.87%	1.52%	5.87%
2002	463	42	9.07%	5.83%	1.94%	4.97%	1.08%	4.97%
2003	579	32	5.53%	2.59%	1.38%	4.15%	1.21%	4.15%
2004	481	34	7.07%	3.12%	1.25%	5.20%	1.46%	5.20%
2005	569	31	5.45%	3.16%	0.88%	3.69%	0.70%	3.69%
2006	513	32	6.24%	3.12%	1.36%	3.70%	1.17%	3.70%
2007	506	23	4.55%	2.37%	0.79%	2.77%	0.59%	2.77%
2008	257	13	5.06%	2.72%	0.78%	2.33%	0.39%	2.33%
2009	147	2	4.08%	1.36%	1.36%	3.77%	1.36%	2.04%
2010	88	2	2.27%	1.14%	0.00%	1.14%	0.00%	1.14%
2011	247	3	1.21%	1.21%	0.40%	0.81%	0.00%	0.81%
2012	87	3	3.45%	2.30%	2.30%	2.30%	0.00%	2.30%
2013	90	2	2.22%	1.11%	0.00%	1.11%	1.11%	1.11%
2014	63	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2015	64	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2016	44	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2017	61	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	93	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2019	135	1	0.74%	0.74%	0.00%	0.00%	0.74%	0.00%
2020	33	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
All Model Years	153,503	29,877	19.46%	10.11%	2.40%	10.74%	3.91%	6.58%

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	6	4	66.70%	50.00%	0.00%	50.00%	50.00%	0.00%
1997	12	4	33.30%	25.00%	25.00%	25.00%	8.33%	0.00%
1998	228	43	18.90%	15.40%	5.26%	13.60%	5.70%	1.75%
1999	870	112	12.90%	11.40%	2.30%	10.70%	7.24%	0.69%
2000	30,669	5,623	18.30%	15.90%	3.79%	15.60%	11.10%	0.25%
2001	50,880	7,754	15.20%	13.10%	2.90%	12.90%	9.00%	0.23%
2002	35,461	5,327	15.00%	12.70%	3.18%	12.40%	8.21%	0.28%
2003	63,591	7,126	11.20%	9.59%	2.19%	9.39%	6.14%	0.20%
2004	41,910	4,933	11.80%	10.10%	2.23%	9.86%	6.78%	0.23%
2005	76,718	6,945	9.05%	7.73%	1.63%	7.54%	5.10%	0.19%
2006	45,030	4,197	9.32%	7.89%	1.69%	7.74%	5.24%	0.15%
2007	84,570	5,279	6.24%	5.35%	1.03%	5.24%	3.39%	0.11%
2008	40,292	2,799	6.95%	6.02%	1.05%	5.93%	4.07%	0.09%
2009	51,505	2,456	4.77%	4.19%	0.59%	4.11%	2.90%	0.08%
2010	26,102	1,592	6.10%	5.46%	0.73%	5.36%	4.01%	0.10%
2011	73,461	3,046	4.15%	3.80%	0.40%	3.74%	2.71%	0.06%
2012	16,661	905	5.43%	4.89%	0.56%	4.86%	4.03%	0.03%
2013	17,900	817	4.56%	4.05%	0.50%	4.04%	3.47%	0.01%
2014	16,984	723	4.26%	3.97%	0.29%	3.90%	3.49%	0.07%
2015	25,246	1,026	4.06%	3.83%	0.23%	3.80%	3.47%	0.03%
2016	15,749	612	3.89%	3.71%	0.17%	3.71%	3.49%	0.00%
2017	12,693	403	3.17%	2.94%	0.24%	2.91%	2.75%	0.02%
2018	10,829	338	3.12%	2.94%	0.18%	2.90%	2.78%	0.04%
2019	2,897	157	5.42%	5.11%	0.31%	5.07%	5.01%	0.03%
2020	7	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Other	14	10	71.40%	42.90%	42.90%	42.90%	7.14%	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 <sup>1</sup>	OBD II Equipped?	Smog Check Required None	Smog Check Required OIS Test	Smog Check Required BAR-97 Test
All <sup>2</sup> (except Diesel)	Four Model-years and newer <sup>3</sup>	All	All	x		
	Fifth and sixth model-years <sup>4</sup>	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 <sup>5</sup>		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 <sup>6</sup>	
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		

<sup>1</sup> Gross vehicle weight rating

<sup>2</sup> 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.

<sup>3</sup> 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).

<sup>4</sup> 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).

<sup>5</sup> 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.

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