

# Executive Summary Report

## Smog Check Statewide April 2020

### 1. TESTING VOLUME

Testing Volume	All Tests	Failed	Percent (%) Failed
Initial Test	595,637	61,239	10.28%
Total	653,900	70,243	10.74%

### 2. CERTIFICATION VOLUME

Certification Volume	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	528,998	88.81%	66,639	11.19%
Total	577,609	88.33%	76,291	11.67%

### 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	277,262	88.88%	34,676	11.12%
Non-STAR Test Only	11,307	89.95%	1,263	10.05%
STAR Test and Repair	163,014	88.96%	20,227	11.04%
Non-STAR Test and Repair	74,587	91.62%	6,822	8.38%
Total	526,170	89.31%	62,988	10.69%

\*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	9,605	10.69%
All Visual	6,401	1.27%	2,913	3.24%
All Functional	39,475	7.80%	9,295	10.35%
OBDII	38,893	7.69%	5,651	6.29%
Overall	43,780	8.66%	17,460	19.43%

### 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	22,278	46,781	18,030	38,631
Non-Directed	160,963	265,157	144,984	238,631
Total	183,241	311,938	163,014	277,262

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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	168	40	137	24
Non-Directed	81,241	12,530	74,450	11,283
Total	81,409	12,570	74,587	11,307

### 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	429,647	37,606	8.75%	69,020	13,812	20.00%
Partial	27,785	2,337	8.41%	5,984	1,284	21.50%
Basic	45,158	3,563	7.89%	11,216	1,568	14.00%
Change of Ownership	3,209	274	8.54%	625	150	24.00%
No Program	0	0	0.00%	1	1	100.00%
Unknown	0	0	0.00%	2,993	645	21.60%
Total Program Area	505,799	43,780	8.66%	89,839	17,460	19.40%

### 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	261,400	24,143	9.24%	50,538	9,802	19.40%
STAR Test Only Suspended	959	66	6.88%	71	14	19.70%
Non-STAR Test Only	11,124	915	8.23%	1,446	207	14.30%
STAR Test and Repair	155,526	13,571	8.73%	27,715	5,892	21.30%
STAR Test and Repair Suspended	301	31	10.30%	22	5	22.70%
Non-STAR Test and Repair	72,871	4,831	6.63%	8,538	1,232	14.40%
Test and Repair/Dealer	1,546	74	4.79%	19	2	10.50%
Business Fleet	64	7	10.90%	0	0	0.00%
Permanent Fleet Registered	29	0	0.00%	0	0	0.00%
Referee	56	28	50.00%	42	23	54.80%
Government Fleet	1,923	114	5.93%	1,448	283	19.50%
Total	505,799	43,780	8.66%	89,839	17,460	19.40%

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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	108	48	1,877	74	2,107
STAR Test Only	15	1	1,714	34	1,764
STAR Sub-total	123	49	3,591	108	3,871
Non-STAR Test and Repair	496	46	2,141	244	2,927
Non-STAR Test Only	27	7	371	32	437
Non-STAR Sub-total	523	53	2,512	276	3,364
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	41	1	44
Unknown Type	0	0	16	0	16
Other Station Sub-Total	112	7	434	18	571
Total	758	109	6,537	402	7,806

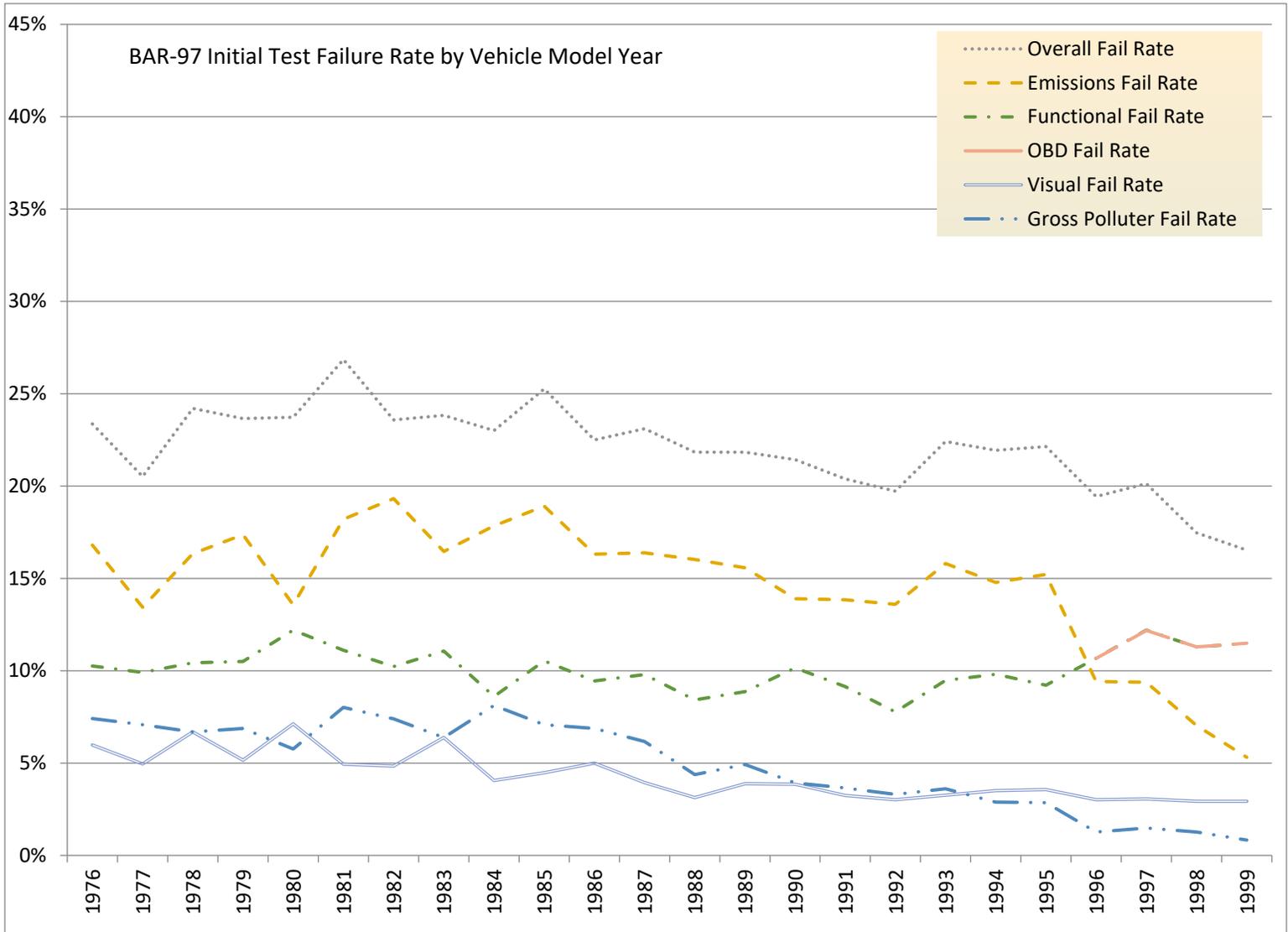
### 10. NUMBER OF STATIONS CONDUCTING TEST BY EQUIPMENT TYPE

Station Type	BAR-97 Only	OIS Only	BAR-97 & OIS
STAR Test and Repair	1	187	1,801
STAR Test Only	4	92	1,547
<i>STAR Sub-total</i>	5	279	3,348
Non-STAR Test and Repair	0	1,730	390
Non-STAR Test Only	1	109	65
<i>Non-STAR Sub-total</i>	1	1,839	455
Basic Area Dealer	0	48	5
Business Fleet	0	3	0
Permanent Fleet Registered	0	17	0
Referee	0	1	9
Government Fleet	8	132	35
Unknown Type	0	3	10
<i>Other Station Sub-Total</i>	8	204	59
Total	14	2,322	3,862

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

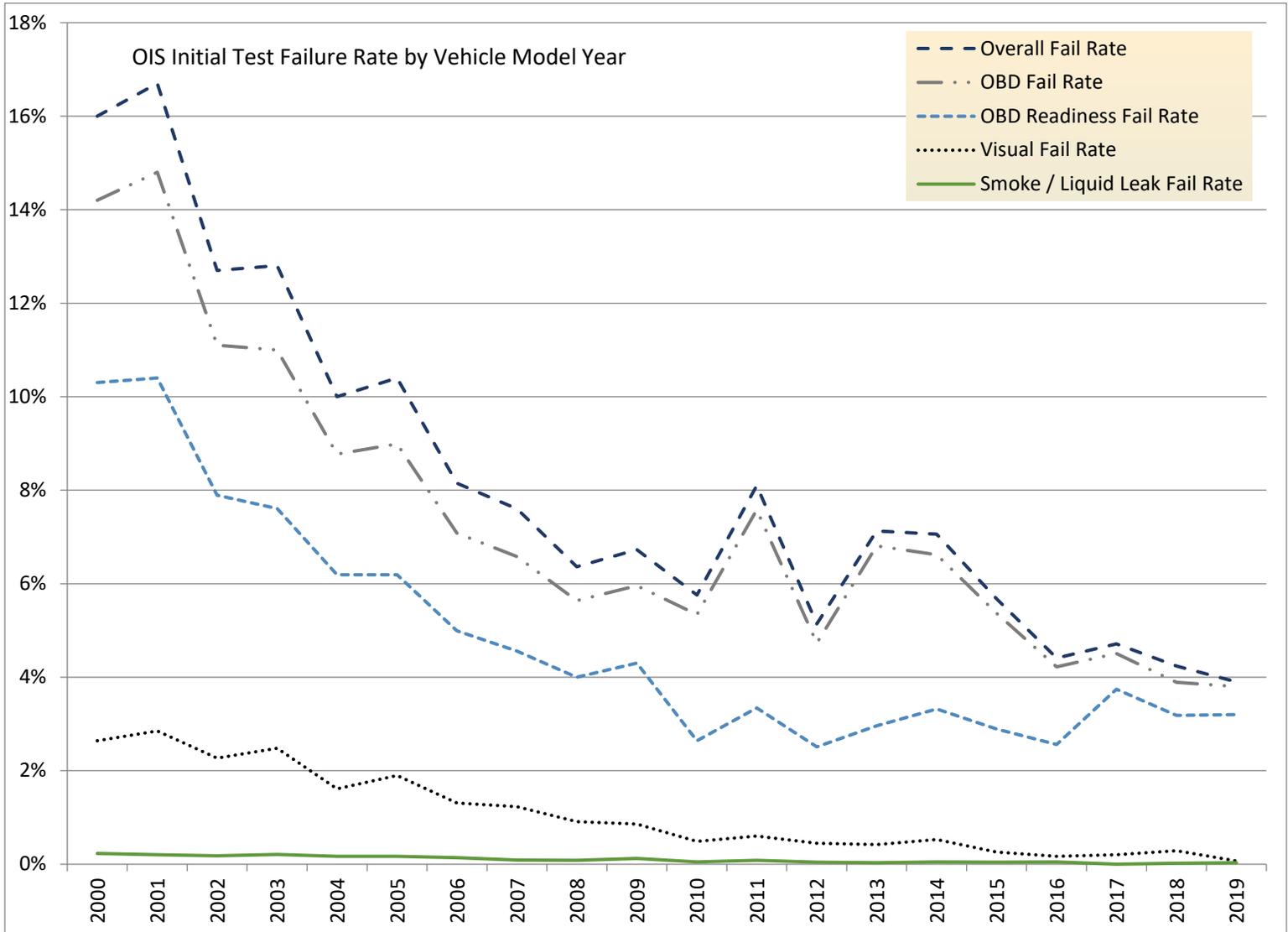


Note: Please see tabular data in Table 18 for BAR-97 tests conducted on other vehicle model years not shown in chart.

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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	69	44
Certificate of Non-Compliance	0	0
Parts Cost	5	3
Hardship Extensions	0	0
Exempt Vehicle	0	2
Exempted by Directive	0	0
Parts Exemption	0	0
Unknown Outcome	0	0
Permanently Exempt Vehicle	0	0
Temporarily Exempt Vehicle	0	0
Total	74	49

### 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)	2,351
EO and EI (Inspect and Repair)	2,645
Total	4,996

### 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	27,690	\$55.91	155,167	\$49.70	182,857	\$50.64
STAR Test Only	50,385	\$49.97	259,889	\$48.82	310,274	\$49.01
Non-STAR Test and Repair	8,535	\$54.68	72,342	\$57.52	80,877	\$57.22
Non-STAR Test Only	1,441	\$42.46	11,064	\$42.32	12,505	\$42.33
Test and Repair/Dealer	19	\$65.75	1,525	\$61.70	1,544	\$61.75
Total	88,070	\$52.17	499,987	\$50.25	588,057	\$50.54

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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 Count <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	1	\$90.00	6,016	\$60.04	27,689	\$55.90	149,151	\$49.28
STAR Test Only	41	\$40.32	6,887	\$44.00	50,344	\$49.97	253,002	\$48.96
Non-STAR Test and Repair	0	.	38,170	\$59.82	8,535	\$54.68	34,172	\$54.95
Non-STAR Test Only	25	\$31.75	5,220	\$44.57	1,416	\$42.64	5,844	\$40.30
Test and Repair/Dealer	0	.	1,411	\$61.48	19	\$65.75	114	\$64.47
Total	67	\$37.87	57,704	\$56.62	88,003	\$52.18	442,283	\$49.42

<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	723	\$51	3,449	\$440
	\$101-250	842	\$174		
	\$251-500	856	\$366		
	\$501-650	322	\$581		
	Over \$650	706	\$1,184		
Non-STAR Repairs (Test and Repair)	\$1-100	229	\$50	969	\$475
	\$101-250	241	\$169		
	\$251-500	234	\$370		
	\$501-650	63	\$574		
	Over \$650	202	\$1,412		
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	171	\$713
	\$101-250	9	\$218		
	\$251-500	46	\$397		
	\$501-650	35	\$588		
	Over \$650	81	\$1,002		
Total Repairs	\$1-100	952	\$51	4,589	\$458
	\$101-250	1,092	\$173		
	\$251-500	1,136	\$368		
	\$501-650	420	\$580		
	Over \$650	989	\$1,216		

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	351	82	23.36%	16.81%	7.41%	10.26%	5.98%	NA
1977	424	87	20.52%	13.44%	7.08%	9.91%	4.95%	NA
1978	508	123	24.21%	16.34%	6.69%	10.43%	6.69%	NA
1979	524	124	23.66%	17.37%	6.87%	10.50%	5.15%	NA
1980	295	70	23.73%	13.56%	5.76%	12.20%	7.12%	NA
1981	324	87	26.85%	18.21%	8.02%	11.11%	4.94%	NA
1982	352	83	23.58%	19.32%	7.39%	10.23%	4.83%	NA
1983	407	97	23.83%	16.46%	6.39%	11.06%	6.39%	NA
1984	813	187	23.00%	17.84%	8.12%	8.61%	4.06%	NA
1985	1,073	271	25.26%	18.92%	7.08%	10.53%	4.47%	NA
1986	1,440	324	22.50%	16.32%	6.88%	9.44%	5.00%	NA
1987	1,623	375	23.11%	16.39%	6.16%	9.80%	3.94%	NA
1988	1,947	425	21.83%	16.02%	4.37%	8.42%	3.13%	NA
1989	2,761	603	21.84%	15.57%	4.93%	8.87%	3.88%	NA
1990	3,014	646	21.43%	13.90%	3.92%	10.15%	3.85%	NA
1991	3,585	731	20.39%	13.84%	3.65%	9.15%	3.24%	NA
1992	3,386	668	19.73%	13.59%	3.31%	7.77%	3.01%	NA
1993	4,208	943	22.41%	15.80%	3.61%	9.48%	3.26%	NA
1994	5,676	1,245	21.93%	14.78%	2.89%	9.81%	3.51%	NA
1995	6,089	1,348	22.14%	15.21%	2.86%	9.21%	3.56%	NA
1996	8,396	1,632	19.44%	9.42%	1.27%	10.67%	3.01%	10.67%
1997	9,712	1,955	20.13%	9.37%	1.48%	12.20%	3.06%	12.18%
1998	14,302	2,499	17.47%	7.03%	1.27%	11.29%	2.93%	11.29%
1999	15,660	2,588	16.53%	5.31%	0.83%	11.49%	2.93%	11.49%
2000	333	47	14.11%	10.21%	4.50%	4.80%	2.10%	4.80%
2001	227	37	16.30%	11.45%	4.41%	9.69%	1.76%	9.69%
2002	293	36	12.29%	6.48%	3.07%	6.83%	1.71%	6.83%
2003	191	24	12.57%	9.42%	5.24%	4.71%	0.52%	4.71%
2004	327	29	8.87%	4.59%	2.14%	5.81%	1.53%	5.81%
2005	173	20	11.56%	6.36%	3.47%	8.67%	0.58%	8.67%
2006	361	20	5.54%	2.49%	0.55%	3.05%	0.83%	3.05%
2007	132	12	9.09%	4.55%	0.76%	6.82%	0.00%	6.82%
2008	229	11	4.80%	2.18%	0.87%	3.06%	0.87%	3.06%
2009	75	2	8.00%	2.67%	0.00%	3.77%	0.00%	8.00%
2010	67	3	4.48%	1.49%	1.49%	4.48%	1.49%	4.48%
2011	69	5	7.25%	0.00%	0.00%	7.25%	0.00%	7.25%
2012	180	8	4.44%	0.56%	0.00%	4.44%	0.00%	4.44%
2013	25	5	20.00%	4.00%	0.00%	20.00%	0.00%	20.00%
2014	43	3	6.98%	0.00%	0.00%	6.98%	2.33%	6.98%
2015	27	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2016	22	1	4.55%	0.00%	0.00%	4.55%	0.00%	4.55%
2017	20	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	45	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2019	77	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2020	53	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	89,839	17,460	19.43%	10.69%	2.52%	10.35%	3.24%	6.29%

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	3	1	33.30%	33.30%	0.00%	33.30%	0.00%	0.00%
1997	2	1	50.00%	50.00%	0.00%	50.00%	50.00%	0.00%
1998	139	18	12.90%	12.20%	2.16%	11.50%	6.47%	0.72%
1999	666	102	15.30%	13.40%	2.70%	12.80%	8.11%	0.60%
2000	27,365	4,379	16.00%	14.50%	2.64%	14.20%	10.30%	0.23%
2001	20,505	3,418	16.70%	15.00%	2.85%	14.80%	10.40%	0.20%
2002	35,147	4,449	12.70%	11.30%	2.27%	11.10%	7.89%	0.18%
2003	24,427	3,132	12.80%	11.20%	2.48%	11.00%	7.61%	0.21%
2004	45,945	4,615	10.00%	8.94%	1.61%	8.77%	6.19%	0.17%
2005	28,755	2,979	10.40%	9.15%	1.90%	8.99%	6.19%	0.17%
2006	52,464	4,274	8.15%	7.21%	1.31%	7.08%	4.99%	0.14%
2007	31,752	2,412	7.60%	6.67%	1.23%	6.58%	4.56%	0.09%
2008	45,146	2,873	6.36%	5.72%	0.91%	5.64%	4.00%	0.08%
2009	15,072	1,015	6.73%	6.08%	0.86%	5.96%	4.30%	0.12%
2010	41,109	2,369	5.76%	5.39%	0.49%	5.34%	2.64%	0.05%
2011	16,900	1,369	8.10%	7.66%	0.60%	7.58%	3.34%	0.08%
2012	71,171	3,655	5.14%	4.76%	0.45%	4.73%	2.51%	0.04%
2013	7,406	528	7.13%	6.83%	0.42%	6.81%	2.96%	0.03%
2014	8,041	568	7.06%	6.67%	0.53%	6.62%	3.32%	0.05%
2015	8,418	478	5.68%	5.41%	0.26%	5.37%	2.89%	0.04%
2016	10,344	456	4.41%	4.27%	0.17%	4.22%	2.56%	0.05%
2017	6,342	299	4.71%	4.51%	0.20%	4.51%	3.74%	0.00%
2018	4,806	204	4.24%	3.91%	0.29%	3.89%	3.18%	0.02%
2019	3,027	118	3.90%	3.83%	0.07%	3.80%	3.20%	0.03%
2020	840	66	7.86%	7.86%	0.00%	7.86%	6.67%	0.00%
2021	3	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Other	4	2	50.00%	0.00%	0.00%	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 <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).