

Executive Summary Report

SMOG CHECK Statewide

March 2013

1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	1,055,861	136,091	12.89%
Total	1,214,866	173,683	14.30%

2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	908,308	86.03%	147,553	13.97%
Total	1,025,473	84.41%	189,393	15.59%

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	419,437	84.62%	76,252	15.38%
Non-STAR Test Only	105,141	87.71%	14,739	12.29%
STAR Test and Repair	158,202	84.68%	28,616	15.32%
Non-STAR Test and Repair	220,614	90.41%	23,410	9.59%
Total	903,394	85.56%	152,467	14.44%

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

4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	13,675	1.30%
All Emissions	61,081	5.78%
All Visual	24,254	2.30%
All Functional	87,317	8.27%
OBDII	58,110	5.50%
Overall	136,091	12.89%

5. Initial Tests at All Test-Only Stations

Vehicles	STAR Station Initial Tests	Non-STAR Station Initial Tests	STAR Station Certificates Issued	Non-STAR Station Certificates Issued
Directed	223,639	10,864	172,095	7,421
Non-Directed	272,050	109,016	247,342	97,720
Total	495,689	119,880	419,437	105,141

6. Initial Tests at All Test and Repair Stations

Vehicles	STAR Station Initial Tests	Non-STAR Station Initial Tests	STAR Station Certificates Issued	Non-STAR Station Certificates Issued
Directed	65,748	2,973	49,551	1,004
Non-Directed	121,070	241,051	108,651	219,610
Total	186,818	244,024	158,202	220,614

7. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	846,850	114,353	13.50%	11,227	1.33%
Partially Enhanced	55,691	7,421	13.33%	777	1.40%
Basic	93,275	8,591	9.21%	980	1.05%
Change of Ownership	6,827	912	13.36%	156	2.29%
No Program	6	1	16.67%	1	16.67%
Unknown Program	53,212	4,813	9.04%	534	1.00%
Total Program Area	1,055,861	136,091	12.89%	13,675	1.30%

8. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
STAR Test Only	495,689	74,976	15.13%	7,706	1.55%
Non-STAR Test Only	119,880	13,871	11.57%	1,359	1.13%
STAR Test and Repair	186,818	27,403	14.67%	2,737	1.47%
Non-STAR Test and Repair	244,024	19,100	7.83%	1,791	0.73%
Basic Area Dealer	4,895	185	3.78%	9	0.18%
Business Fleet	6	1	16.67%	0	0.00%
Permanent Fleet Registered	53	4	7.55%	0	0.00%
Referee	468	222	47.44%	33	7.05%
Government Fleet	4,028	329	8.17%	40	0.99%
Unknown Privilege	0	0	0.00%		0.00%
Total	1,055,861	136,091	12.89%	13,675	1.30%

9. Number of Stations by Type/Privilege and Program Area

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
STAR Regular Test and Repair CAP Enhanced	1,354	55	40	0	0	1,449
STAR Regular Test and Repair CAP Basic	0	0	60	0	0	60
STAR Regular Test and Repair COO	13	1	3	55	0	72
STAR Test Only	1,505	19	12	0	0	1,536
Non-STAR Regular Test and Repair	2,666	266	502	52	0	3,486
Non-STAR Test Only	1,044	29	17	0	0	1,090
Repair Only	43	0	2	0	0	45
Basic Area Dealer	0	0	87	0	0	87
Business Fleet	3	0	0	0	0	3
Permanent Fleet Registered	29	1	4	0	0	34
Referee	36	0	6	1	0	43
Government Fleet	248	9	37	2	0	296
Unknown Type	2	0	0	0	0	2
Total	6,943	380	770	110	0	8,203

10. 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
MY-1960	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1974	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1976	899	308	34.26%	23.36%	8.90%	18.35%	11.23%	0.00%
MY-1977	1,131	362	32.01%	19.81%	7.96%	19.19%	10.79%	0.00%
MY-1978	1,334	458	34.33%	21.14%	8.62%	20.91%	12.37%	0.00%
MY-1979	1,461	527	36.07%	23.61%	9.24%	22.25%	13.42%	0.00%
MY-1980	840	294	35.00%	21.07%	9.29%	20.36%	13.69%	0.00%
MY-1981	1,024	383	37.40%	27.93%	11.13%	20.70%	12.50%	0.00%
MY-1982	1,154	421	36.48%	25.13%	9.53%	21.14%	11.61%	0.00%
MY-1983	1,513	592	39.13%	28.16%	10.38%	20.49%	12.82%	0.00%
MY-1984	2,735	1,050	38.39%	28.30%	11.41%	20.66%	11.41%	0.00%
MY-1985	3,623	1,327	36.63%	27.27%	10.10%	20.95%	10.99%	0.00%
MY-1986	5,029	1,846	36.71%	26.61%	9.92%	20.28%	9.76%	0.00%
MY-1987	5,668	2,127	37.53%	27.72%	9.28%	19.78%	9.58%	0.00%
MY-1988	7,105	2,422	34.09%	25.00%	8.46%	17.92%	8.44%	0.00%
MY-1989	10,046	3,364	33.49%	24.25%	7.07%	17.65%	7.54%	0.00%
MY-1990	12,809	4,293	33.52%	24.71%	6.89%	16.71%	6.74%	0.00%
MY-1991	15,165	4,844	31.94%	23.38%	6.10%	15.68%	5.84%	0.00%
MY-1992	16,295	5,180	31.79%	23.23%	6.04%	14.89%	6.33%	0.00%
MY-1993	19,423	6,431	33.11%	25.26%	5.41%	14.37%	6.08%	0.00%
MY-1994	24,472	7,682	31.39%	22.95%	4.27%	13.77%	5.72%	0.00%
MY-1995	34,875	9,471	27.16%	19.35%	3.35%	11.67%	4.96%	0.00%
MY-1996	28,348	7,294	25.73%	13.40%	2.05%	15.18%	4.35%	13.13%
MY-1997	48,564	9,806	20.19%	9.46%	1.43%	12.33%	3.26%	10.67%
MY-1998	43,572	7,983	18.32%	7.72%	1.31%	11.95%	3.17%	10.73%
MY-1999	70,315	9,090	12.93%	4.08%	0.64%	9.02%	2.35%	8.14%
MY-2000	53,167	7,368	13.86%	3.88%	0.71%	10.21%	2.32%	9.70%
MY-2001	98,936	11,738	11.86%	1.77%	0.34%	9.97%	1.67%	9.69%
MY-2002	49,665	6,178	12.44%	2.06%	0.42%	10.35%	1.81%	10.17%
MY-2003	111,396	8,437	7.57%	0.98%	0.20%	6.31%	1.11%	6.14%
MY-2004	45,434	3,526	7.76%	1.04%	0.19%	6.57%	1.05%	6.44%
MY-2005	123,281	5,595	4.54%	0.43%	0.08%	3.81%	0.62%	3.73%
MY-2006	39,621	1,837	4.64%	0.62%	0.10%	3.82%	0.68%	3.78%
MY-2007	127,491	3,073	2.41%	0.19%	0.03%	2.02%	0.34%	1.98%
MY-2008	15,205	295	1.94%	0.54%	0.07%	1.47%	0.29%	1.45%

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
MY-2009	10,331	169	1.64%	0.20%	0.03%	1.48%	0.08%	1.45%
MY-2010	6,554	105	1.60%	0.27%	0.03%	1.34%	0.12%	1.31%
MY-2011	7,603	105	1.38%	0.28%	0.05%	1.13%	0.17%	1.09%
MY-2012	7,935	82	1.03%	0.06%	0.00%	0.93%	0.06%	0.88%
MY-2013	1,830	28	1.53%	0.27%	0.00%	1.26%	0.16%	1.20%
MY-2014	9	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-2015	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
All Model Years	1,055,861	136,091	12.89%	5.78%	1.30%	8.27%	2.30%	5.50%

11. Referee Activity

	Certificates Issued
Certificate of Compliance	508
Certificate of Non Compliance	0
Parts Cost	102
Hardship Extensions	1
Exempt Vehicle	35
Exempted by Directive	8
Parts Exemption	11
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	665

12. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,196
Stations Locked-Out at Least Once	1,051
Stations Conducted at Least One Test	7,007

13. Active Technicians

License Type	Technician Count	Daily Average
EA (Test and Repair Enhanced)	6,527	4,043
EB (Test and Repair Basic)	285	0
EI (Repair Only)	1	0
EO (Test and Repair)	3,640	2,213
EO (Test Only)	468	0

14. Inspection Costs

Station Type	ASM Initial Test Count	Avg ASM Inspection Cost	TSI Initial Test Count	Avg TSI Inspection Cost	Total Initial Tests	Overall Average Inspection Cost
STAR Test and Repair	142,983	47.21	39,713	46.37	182,696	47.03
STAR Test Only	421,534	48.29	63,306	49.65	484,840	48.46
Non-STAR Test and Repair	144,209	48.46	90,896	45.93	235,105	47.48
Non-STAR Test Only	94,204	44.34	21,415	44.35	115,619	44.34
Test and Repair Dealer	7	71.71	4,563	51.13	4,570	51.16
Total	802,937	47.66	219,893	47.04	1,022,830	47.53

15. Repair Costs

Repair Station Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
STAR Repairs (Test and Repair, Non-CAP)	\$1-50	2,578	24.65	11,482	310.18
	\$51-150	2,079	100.64		
	\$151-250	1,657	202.41		
	\$251-450	2,545	342.93		
	Over \$450	2,623	793.22		
Non-STAR Repairs (Test and Repair)	\$1-50	2,013	23.09	7,896	262.82
	\$51-150	1,801	100.24		
	\$151-250	1,300	203.45		
	\$251-450	1,559	338.39		
	Over \$450	1,223	863.59		
Repair Only	\$1-50	0	0.00	0	0.00
	\$51-150	0	0.00		
	\$151-250	0	0.00		
	\$251-450	0	0.00		
	Over \$450	0	0.00		
CAP Repairs	\$1-50	56	21.95	1,140	386.86
	\$51-150	136	100.81		
	\$151-250	146	200.53		
	\$251-450	292	350.33		

Repair Station Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
	Over \$450	510	577.47		
Total Repairs	\$1-50	4,647	23.94	20,518	296.22
	\$51-150	4,016	100.46		
	\$151-250	3,103	202.76		
	\$251-450	4,396	341.81		
	Over \$450	4,356	787.72		

16. CAP Repair Costs

	Total Vehicles	Average Repair Cost
CAP Repairs	1,186	389.03

17. Drill-Through

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Non-STAR Test and Repair	84	7	0	1	4	2	6	1
Acceleration Simulation Mode (ASM)	Basic	Non-STAR Test Only	29	3	0	0	0	3	0	1
Acceleration Simulation Mode (ASM)	Basic	Referee	0	1	1	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Basic	STAR Test and Repair	37	12	2	0	8	4	11	0
Acceleration Simulation Mode (ASM)	Basic	STAR Test Only	65	8	1	0	3	6	4	1
Acceleration Simulation Mode (ASM)	Change of Ownership	STAR Test Only	18	5	0	0	1	1	3	3
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	79	3	1	58	15	65	2
Acceleration Simulation Mode (ASM)	Enhanced	Non-STAR Test and Repair	99,026	8,027	610	699	4,391	2,824	5,700	1,346
Acceleration Simulation Mode (ASM)	Enhanced	Non-STAR Test Only	73,122	10,334	1,011	1,145	4,737	4,398	7,168	2,230
Acceleration Simulation Mode (ASM)	Enhanced	Referee	128	144	18	59	33	66	77	81
Acceleration Simulation Mode (ASM)	Enhanced	STAR Test and Repair	108,226	21,327	2,063	1,922	8,459	10,113	13,186	4,068
Acceleration Simulation Mode (ASM)	Enhanced	STAR Test Only	336,771	66,270	6,834	5,458	25,170	33,061	40,143	11,579
Acceleration Simulation Mode (ASM)	Partial	Non-STAR Test and Repair	19,910	3,047	324	187	1,194	1,598	1,780	358
Acceleration Simulation Mode (ASM)	Partial	Non-STAR Test Only	5,674	985	92	96	391	466	612	164
Acceleration Simulation Mode (ASM)	Partial	Referee	4	11	3	6	2	5	5	9

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Partial	STAR Test and Repair	6,860	1,328	138	101	550	658	831	204
Acceleration Simulation Mode (ASM)	Partial	STAR Test Only	8,346	1,558	167	117	611	782	928	256
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	217	33	0	32	175	49	1
Acceleration Simulation Mode (ASM)	Unknown Program	Non-STAR Test and Repair	11,870	878	94	63	472	348	586	125
Acceleration Simulation Mode (ASM)	Unknown Program	Non-STAR Test Only	4,284	672	57	87	330	298	462	176
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	12	16	2	7	2	9	13	10
Acceleration Simulation Mode (ASM)	Unknown Program	STAR Test and Repair	4,212	622	71	60	296	275	399	113
Acceleration Simulation Mode (ASM)	Unknown Program	STAR Test Only	10,067	1,428	173	147	665	670	906	270
Two Speed Idle (TSI)	Basic	Basic Area Dealer	3,326	144	6	3	79	27	114	15
Two Speed Idle (TSI)	Basic	Government Fleet	0	7	1	0	5	2	5	0
Two Speed Idle (TSI)	Basic	Non-STAR Test and Repair	51,483	4,864	530	333	2,407	1,312	3,625	711
Two Speed Idle (TSI)	Basic	Non-STAR Test Only	5,950	660	71	50	342	176	493	92
Two Speed Idle (TSI)	Basic	Referee	15	31	9	14	6	15	21	24
Two Speed Idle (TSI)	Basic	STAR Test and Repair	13,553	1,865	237	166	858	540	1,347	377
Two Speed Idle (TSI)	Basic	STAR Test Only	6,069	868	122	93	396	251	603	188
Two Speed Idle (TSI)	Change of Ownership	Non-STAR Test and Repair	3,056	399	62	39	190	146	300	72
Two Speed Idle (TSI)	Change of Ownership	Non-STAR Test Only	388	75	14	6	21	29	52	16
Two Speed Idle (TSI)	Change of Ownership	STAR Test and Repair	1,390	274	55	22	88	115	175	45
Two Speed Idle (TSI)	Change of Ownership	STAR Test Only	695	147	25	18	50	51	97	35
Two Speed Idle (TSI)	Enhanced	Basic Area Dealer	387	10	0	2	6	1	7	2
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	17	3	2	7	5	10	2
Two Speed Idle (TSI)	Enhanced	Non-STAR Test and Repair	20,759	1,066	87	85	728	185	856	144
Two Speed Idle (TSI)	Enhanced	Non-STAR Test Only	11,734	910	101	92	566	196	706	153
Two Speed Idle (TSI)	Enhanced	STAR Test and Repair	17,523	1,539	136	116	952	287	1,197	243
Two Speed Idle (TSI)	Enhanced	STAR Test Only	47,614	4,156	361	308	2,697	757	3,236	640
Two Speed Idle (TSI)	No Program	STAR Test and Repair	0	1	1	0	0	1	0	0

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Two Speed Idle (TSI)	Partial	Basic Area Dealer	47	3	1	0	2	1	2	0
Two Speed Idle (TSI)	Partial	Non-STAR Test and Repair	2,572	204	27	13	131	50	158	30
Two Speed Idle (TSI)	Partial	Non-STAR Test Only	578	48	6	2	29	12	36	7
Two Speed Idle (TSI)	Partial	STAR Test and Repair	963	91	10	7	49	19	72	14
Two Speed Idle (TSI)	Partial	STAR Test Only	1,084	96	9	7	63	24	71	16
Two Speed Idle (TSI)	Unknown Program	Basic Area Dealer	519	18	2	0	12	3	14	3
Two Speed Idle (TSI)	Unknown Program	Non-STAR Test and Repair	5,416	409	57	39	227	123	317	65
Two Speed Idle (TSI)	Unknown Program	Non-STAR Test Only	1,327	84	7	9	52	17	64	17
Two Speed Idle (TSI)	Unknown Program	STAR Test and Repair	2,344	198	24	15	109	55	150	39
Two Speed Idle (TSI)	Unknown Program	STAR Test Only	3,185	213	14	28	151	35	172	40
UnKnown TestType	Basic	Basic Area Dealer	254	10	0	1	6	11	6	4
UnKnown TestType	Basic	Government Fleet	0	0	0	0	0	5	0	0
UnKnown TestType	Basic	Non-STAR Test and Repair	1,906	63	0	8	49	73	49	18
UnKnown TestType	Basic	Non-STAR Test Only	165	7	0	0	5	7	5	2
UnKnown TestType	Basic	STAR Test and Repair	509	27	0	6	14	26	14	13
UnKnown TestType	Basic	STAR Test Only	217	14	0	4	9	14	9	5
UnKnown TestType	Change of Ownership	Non-STAR Test and Repair	122	3	0	0	3	4	3	0
UnKnown TestType	Change of Ownership	Non-STAR Test Only	8	1	0	1	0	1	0	1
UnKnown TestType	Change of Ownership	STAR Test and Repair	97	5	0	1	3	5	3	2
UnKnown TestType	Change of Ownership	STAR Test Only	30	1	0	0	0	1	0	1
UnKnown TestType	Enhanced	Basic Area Dealer	21	0	0	0	0	2	0	0
UnKnown TestType	Enhanced	Government Fleet	0	0	0	0	0	32	0	0
UnKnown TestType	Enhanced	Non-STAR Test and Repair	2,826	96	0	17	68	131	68	35
UnKnown TestType	Enhanced	Non-STAR Test Only	1,547	75	0	15	52	76	52	29
UnKnown TestType	Enhanced	Referee	13	4	0	3	1	5	1	3
UnKnown TestType	Enhanced	STAR Test and Repair	1,935	91	0	17	63	117	63	28
UnKnown TestType	Enhanced	STAR Test Only	4,641	195	0	46	125	209	125	81
UnKnown TestType	Partial	Government Fleet	0	0	0	0	0	2	0	0
UnKnown TestType	Partial	Non-STAR Test and Repair	895	25	0	4	19	29	19	6

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
UnKnown TestType	Partial	Non-STAR Test Only	171	9	0	2	6	10	6	3
UnKnown TestType	Partial	STAR Test and Repair	292	9	0	2	5	10	5	4
UnKnown TestType	Partial	STAR Test Only	273	6	0	0	6	6	6	0
UnKnown TestType	Unknown Program	Government Fleet	0	0	0	0	0	9	0	0
UnKnown TestType	Unknown Program	Non-STAR Test and Repair	672	12	0	4	6	29	6	8
UnKnown TestType	Unknown Program	Non-STAR Test Only	161	7	0	2	4	9	4	4
UnKnown TestType	Unknown Program	Referee	13	6	0	5	1	6	1	6
UnKnown TestType	Unknown Program	STAR Test and Repair	260	13	0	2	8	21	8	5
UnKnown TestType	Unknown Program	STAR Test Only	358	11	0	3	7	18	7	4