

Executive Summary Report

SMOG CHECK Statewide

December 2013

1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	837,352	92,894	11.09%
Total	941,999	115,267	12.24%

2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	733,531	87.60%	103,821	12.40%
Total	813,580	86.37%	128,419	13.63%

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	367,431	86.78%	55,990	13.22%
Non-STAR Test Only	34,847	90.16%	3,805	9.84%
STAR Test and Repair	182,162	87.05%	27,110	12.95%
Non-STAR Test and Repair	143,943	91.13%	14,011	8.87%
Total	728,383	86.99%	108,969	13.01%

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

4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	8,600	1.03%
All Emissions	39,722	4.74%
All Visual	16,696	1.99%
All Functional	60,297	7.20%
OBDII	41,983	5.01%
Overall	92,894	11.09%

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	178,437	269	142,402	50
Non-Directed	244,984	38,383	225,029	34,797
Total	423,421	38,652	367,431	34,847

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	65,143	849	51,598	68
Non-Directed	144,129	157,105	130,564	143,875
Total	209,272	157,954	182,162	143,943

7. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	670,703	77,933	11.62%	7,056	1.05%
Partially Enhanced	42,376	4,827	11.39%	431	1.02%
Basic	76,544	6,195	8.09%	665	0.87%
Change of Ownership	5,096	586	11.50%	93	1.82%
No Program	9	1	11.11%	0	0.00%
Unknown Program	42,624	3,352	7.86%	355	0.83%
Total Program Area	837,352	92,894	11.09%	8,600	1.03%

8. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
STAR Test Only	423,421	54,253	12.81%	5,051	1.19%
Non-STAR Test Only	38,652	3,321	8.59%	265	0.69%
STAR Test and Repair	209,272	24,546	11.73%	2,326	1.11%
Non-STAR Test and Repair	157,954	10,143	6.42%	876	0.55%
Basic Area Dealer	3,883	117	3.01%	7	0.18%
Business Fleet	3	0	0.00%	0	0.00%
Permanent Fleet Registered	18	0	0.00%	0	0.00%
Referee	345	151	43.77%	16	4.64%
Government Fleet	2,294	179	7.80%	25	1.09%
Unknown Privilege	1,510	184	12.19%	34	2.25%
Total	837,352	92,894	11.09%	8,600	1.03%

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	1,863	82	41	0	0	1,986
STAR Regular Test and Repair CAP Basic	0	0	94	0	0	94
STAR Regular Test and Repair COO	32	0	0	66	0	98
STAR Test Only	1,837	26	17	0	0	1,880
Non-STAR Regular Test and Repair	2,201	238	474	37	0	2,950
Non-STAR Test Only	538	14	11	0	0	563
Repair Only	72	2	3	0	0	77
Basic Area Dealer	0	0	79	0	0	79
Business Fleet	3	0	0	0	0	3
Permanent Fleet Registered	28	1	4	0	0	33
Referee	36	0	6	1	0	43
Government Fleet	248	9	37	2	0	296
Unknown Type	7	0	0	0	0	7
Total	6,865	372	766	106	0	8,109

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-1976	636	179	28.14%	18.08%	7.39%	14.62%	8.81%	0.00%
MY-1977	790	239	30.25%	18.86%	6.08%	17.72%	8.61%	0.00%
MY-1978	872	259	29.70%	18.58%	7.68%	16.86%	9.75%	0.00%
MY-1979	1,118	375	33.54%	21.47%	9.21%	18.52%	11.81%	0.00%
MY-1980	568	193	33.98%	23.42%	10.74%	19.37%	11.27%	0.00%
MY-1981	687	225	32.75%	25.33%	9.75%	14.70%	10.19%	0.00%
MY-1982	846	274	32.39%	22.58%	8.51%	17.14%	11.11%	0.00%
MY-1983	967	306	31.64%	21.61%	7.65%	16.86%	10.44%	0.00%
MY-1984	1,841	620	33.68%	24.61%	9.72%	18.47%	10.76%	0.00%
MY-1985	2,448	825	33.70%	24.96%	8.66%	17.36%	9.03%	0.00%
MY-1986	3,551	1,173	33.03%	23.66%	8.05%	18.08%	8.81%	0.00%
MY-1987	4,404	1,436	32.61%	23.37%	7.18%	16.33%	7.92%	0.00%
MY-1988	4,846	1,597	32.96%	24.00%	7.74%	16.18%	7.24%	0.00%
MY-1989	6,963	2,114	30.36%	22.12%	6.48%	14.88%	6.86%	0.00%
MY-1990	8,444	2,450	29.01%	21.22%	5.89%	14.09%	5.98%	0.00%
MY-1991	10,700	3,069	28.68%	20.92%	5.77%	14.07%	5.21%	0.00%
MY-1992	10,296	2,878	27.95%	20.90%	4.98%	12.91%	5.38%	0.00%
MY-1993	13,527	4,159	30.75%	23.24%	4.83%	13.52%	5.37%	0.00%
MY-1994	16,975	4,739	27.92%	19.98%	3.58%	12.29%	5.13%	0.00%
MY-1995	22,896	6,070	26.51%	18.83%	3.05%	11.02%	4.96%	0.00%
MY-1996	21,123	4,644	21.99%	10.95%	1.61%	12.90%	4.03%	10.95%
MY-1997	31,147	6,082	19.53%	9.25%	1.49%	11.96%	3.25%	10.29%
MY-1998	33,621	5,387	16.02%	6.63%	1.14%	10.19%	2.78%	9.04%
MY-1999	44,956	5,776	12.85%	4.18%	0.69%	9.02%	2.38%	8.12%
MY-2000	52,104	5,760	11.05%	3.01%	0.56%	8.01%	2.07%	7.49%
MY-2001	60,665	7,818	12.89%	2.10%	0.40%	10.81%	1.90%	10.44%
MY-2002	56,322	5,138	9.12%	1.56%	0.28%	7.45%	1.53%	7.25%
MY-2003	69,327	5,998	8.65%	1.25%	0.24%	7.19%	1.39%	6.98%
MY-2004	59,590	3,352	5.63%	0.74%	0.16%	4.63%	0.91%	4.48%
MY-2005	75,852	3,997	5.27%	0.60%	0.11%	4.44%	0.71%	4.32%
MY-2006	60,788	1,977	3.25%	0.50%	0.06%	2.66%	0.46%	2.59%
MY-2007	75,635	2,465	3.26%	0.34%	0.07%	2.77%	0.43%	2.70%
MY-2008	45,282	786	1.74%	0.39%	0.04%	1.40%	0.24%	1.37%
MY-2009	8,107	145	1.79%	0.78%	0.07%	1.37%	0.20%	1.32%
MY-2010	9,852	171	1.74%	0.28%	0.01%	1.56%	0.09%	1.49%

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-2011	6,188	79	1.28%	0.55%	0.00%	1.18%	0.03%	1.13%
MY-2012	7,032	65	0.92%	0.43%	0.04%	0.73%	0.10%	0.68%
MY-2013	5,549	54	0.97%	0.18%	0.00%	0.87%	0.13%	0.85%
MY-2014	837	20	2.39%	0.00%	0.00%	2.39%	0.00%	2.39%
All Model Years	837,352	92,894	11.09%	4.74%	1.03%	7.20%	1.99%	5.01%

11. Referee Activity

	Certificates Issued
Certificate of Compliance	340
Certificate of Non Compliance	1
Parts Cost	60
Hardship Extensions	0
Exempt Vehicle	26
Exempted by Directive	3
Parts Exemption	8
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	438

12. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,118
Stations Locked-Out at Least Once	1,090
Stations Conducted at Least One Test	6,991

13. Active Technicians

License Type	Technician Count	Daily Average
EA (Test and Repair Enhanced)	2,385	1,376
EB (Test and Repair Basic)	115	0
EI (Repair Only)	3	0
EO (Test and Repair)	6,763	4,040
EO (Test Only)	1,320	828

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	154,180	46.40	48,783	46.28	202,963	46.37
STAR Test Only	349,788	47.50	63,992	48.82	413,780	47.71
Non-STAR Test and Repair	85,425	50.09	65,536	46.68	150,961	48.61
Non-STAR Test Only	27,299	42.76	8,914	39.69	36,213	42.00
Test and Repair Dealer	7	30.71	3,556	56.44	3,563	56.39
Total	616,699	47.38	190,781	47.15	807,480	47.32

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	2,094	24.44	9,722	316.71
	\$51-150	1,849	100.94		
	\$151-250	1,466	200.63		
	\$251-450	2,076	342.51		
	Over \$450	2,237	820.75		
Non-STAR Repairs (Test and Repair)	\$1-50	964	22.51	3,969	272.47
	\$51-150	912	100.27		
	\$151-250	704	200.28		
	\$251-450	785	336.07		
	Over \$450	604	932.90		
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	53	24.25	677	384.69
	\$51-150	71	107.72		
	\$151-250	86	207.80		
	\$251-450	190	349.82		
	Over \$450	277	603.48		
Total Repairs	\$1-50	3,111	23.84	14,368	307.69
	\$51-150	2,832	100.89		

Repair Station Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
	\$151-250	2,256	200.79		
	\$251-450	3,051	341.31		
	Over \$450	3,118	823.17		

16. CAP Repair Costs

	Total Vehicles	Average Repair Cost
CAP Repairs	680	368.47

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	46	6	1	1	3	3	6	1
Acceleration Simulation Mode (ASM)	Basic	Non-STAR Test Only	16	3	0	0	1	2	2	1
Acceleration Simulation Mode (ASM)	Basic	STAR Test and Repair	40	12	1	0	1	9	4	2
Acceleration Simulation Mode (ASM)	Basic	STAR Test Only	31	11	2	0	3	7	7	2
Acceleration Simulation Mode (ASM)	Change of Ownership	STAR Test Only	12	1	1	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	43	4	0	26	15	29	0
Acceleration Simulation Mode (ASM)	Enhanced	Non-STAR Test and Repair	57,539	3,632	255	287	2,077	1,222	2,623	578
Acceleration Simulation Mode (ASM)	Enhanced	Non-STAR Test Only	20,930	2,100	142	271	1,102	702	1,514	484
Acceleration Simulation Mode (ASM)	Enhanced	Referee	91	103	9	46	23	57	53	56
Acceleration Simulation Mode (ASM)	Enhanced	STAR Test and Repair	120,853	18,425	1,701	1,512	7,824	8,333	11,424	3,218
Acceleration Simulation Mode (ASM)	Enhanced	STAR Test Only	284,964	46,690	4,402	4,174	19,175	21,655	29,086	8,629
Acceleration Simulation Mode (ASM)	Enhanced	Unknown Privilege	1,082	165	32	18	35	121	72	33
Acceleration Simulation Mode (ASM)	No Program	Non-STAR Test and Repair	1	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Non-STAR Test and Repair	13,266	1,719	126	92	748	846	1,043	189
Acceleration Simulation Mode (ASM)	Partial	Non-STAR Test Only	2,700	337	40	28	147	154	214	60
Acceleration Simulation Mode (ASM)	Partial	Referee	6	3	1	0	2	1	3	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
Acceleration Simulation Mode (ASM)	Partial	STAR Test and Repair	7,226	1,173	119	81	517	550	734	151
Acceleration Simulation Mode (ASM)	Partial	STAR Test Only	7,146	1,189	115	108	536	536	742	218
Acceleration Simulation Mode (ASM)	Partial	Unknown Privilege	5	2	0	0	1	1	1	0
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	86	12	0	18	66	20	0
Acceleration Simulation Mode (ASM)	Unknown Program	Non-STAR Test and Repair	7,390	428	39	31	236	175	285	64
Acceleration Simulation Mode (ASM)	Unknown Program	Non-STAR Test Only	1,777	193	22	28	88	89	128	46
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	9	7	1	3	1	3	4	5
Acceleration Simulation Mode (ASM)	Unknown Program	STAR Test and Repair	5,101	598	64	59	269	265	379	128
Acceleration Simulation Mode (ASM)	Unknown Program	STAR Test Only	9,323	1,212	130	154	570	533	763	278
Acceleration Simulation Mode (ASM)	Unknown Program	Unknown Privilege	26	1	0	0	0	1	0	0
Two Speed Idle (TSI)	Basic	Basic Area Dealer	2,574	98	6	5	61	15	77	13
Two Speed Idle (TSI)	Basic	Government Fleet	0	17	1	0	11	5	12	0
Two Speed Idle (TSI)	Basic	Non-STAR Test and Repair	38,594	3,106	346	170	1,575	849	2,337	420
Two Speed Idle (TSI)	Basic	Non-STAR Test Only	3,367	307	27	28	156	70	225	66
Two Speed Idle (TSI)	Basic	Referee	14	12	3	5	1	4	5	8
Two Speed Idle (TSI)	Basic	STAR Test and Repair	15,037	1,754	195	151	892	440	1,283	323
Two Speed Idle (TSI)	Basic	STAR Test Only	5,720	727	83	61	355	201	532	127
Two Speed Idle (TSI)	Basic	Unknown Privilege	17	3	0	0	2	1	3	0
Two Speed Idle (TSI)	Change of Ownership	Non-STAR Test and Repair	1,731	158	24	11	81	50	125	21
Two Speed Idle (TSI)	Change of Ownership	Non-STAR Test Only	124	7	2	0	1	2	4	2
Two Speed Idle (TSI)	Change of Ownership	STAR Test and Repair	1,744	284	53	21	118	106	187	53
Two Speed Idle (TSI)	Change of Ownership	STAR Test Only	627	123	12	15	54	31	87	26
Two Speed Idle (TSI)	Change of Ownership	Unknown Privilege	4	1	1	0	0	1	1	0
Two Speed Idle (TSI)	Enhanced	Basic Area Dealer	296	5	1	1	1	3	1	1
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	19	7	1	6	10	9	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)	Enhanced	Non-STAR Test and Repair	13,974	591	48	55	407	103	460	94
Two Speed Idle (TSI)	Enhanced	Non-STAR Test Only	4,171	278	27	34	163	56	205	54
Two Speed Idle (TSI)	Enhanced	Referee	23	11	0	3	6	2	7	3
Two Speed Idle (TSI)	Enhanced	STAR Test and Repair	23,128	1,736	152	139	1,116	307	1,370	269
Two Speed Idle (TSI)	Enhanced	STAR Test Only	48,567	3,657	276	319	2,404	590	2,881	622
Two Speed Idle (TSI)	Enhanced	Unknown Privilege	142	7	0	0	4	3	4	0
Two Speed Idle (TSI)	Partial	Non-STAR Test and Repair	1,946	122	13	11	79	26	100	16
Two Speed Idle (TSI)	Partial	Non-STAR Test Only	337	22	0	4	14	3	15	7
Two Speed Idle (TSI)	Partial	Referee	2	1	0	0	0	1	0	1
Two Speed Idle (TSI)	Partial	STAR Test and Repair	1,283	110	12	9	63	25	82	16
Two Speed Idle (TSI)	Partial	STAR Test Only	990	78	5	7	53	13	60	12
Two Speed Idle (TSI)	Unknown Program	Basic Area Dealer	399	6	0	1	5	1	5	1
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	13	1	0	8	4	9	0
Two Speed Idle (TSI)	Unknown Program	Non-STAR Test and Repair	3,922	228	24	25	126	69	173	33
Two Speed Idle (TSI)	Unknown Program	Non-STAR Test Only	521	32	5	1	20	5	30	5
Two Speed Idle (TSI)	Unknown Program	Referee	6	5	2	1	1	2	4	3
Two Speed Idle (TSI)	Unknown Program	STAR Test and Repair	3,195	247	29	18	143	69	183	42
Two Speed Idle (TSI)	Unknown Program	STAR Test Only	3,457	245	25	29	155	47	182	43
Two Speed Idle (TSI)	Unknown Program	Unknown Privilege	10	3	1	0	0	3	1	0
Unknown TestType	Basic	Basic Area Dealer	238	6	0	2	4	30	4	4
Unknown TestType	Basic	Government Fleet	0	0	0	0	0	15	0	0
Unknown TestType	Basic	Non-STAR Test and Repair	2,017	64	0	6	46	127	46	19
Unknown TestType	Basic	Non-STAR Test Only	120	5	0	1	2	8	2	3
Unknown TestType	Basic	Referee	0	0	0	0	0	1	0	0
Unknown TestType	Basic	STAR Test and Repair	715	41	0	7	23	48	23	18
Unknown TestType	Basic	STAR Test Only	295	23	0	4	17	24	17	6
Unknown TestType	Change of Ownership	Basic Area Dealer	2	1	0	0	1	1	1	0
Unknown TestType	Change of Ownership	Non-STAR Test and Repair	81	2	0	1	2	2	2	2
Unknown TestType	Change of Ownership	STAR Test and Repair	85	4	0	1	4	4	4	1

	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	Change of Ownership	STAR Test Only	41	2	0	1	1	2	1	1
UnKnown TestType	Enhanced	Basic Area Dealer	19	0	0	0	0	2	0	0
UnKnown TestType	Enhanced	Government Fleet	0	0	0	0	0	48	0	0
UnKnown TestType	Enhanced	Non-STAR Test and Repair	2,153	52	0	8	40	96	40	14
UnKnown TestType	Enhanced	Non-STAR Test Only	581	33	0	6	24	38	24	11
UnKnown TestType	Enhanced	Referee	8	5	0	2	3	5	3	3
UnKnown TestType	Enhanced	STAR Test and Repair	2,929	125	0	14	96	225	96	31
UnKnown TestType	Enhanced	STAR Test Only	5,461	254	0	57	163	299	163	103
UnKnown TestType	Enhanced	Unknown Privilege	32	2	0	1	0	1	0	2
UnKnown TestType	Partial	Non-STAR Test and Repair	786	24	0	2	17	46	17	7
UnKnown TestType	Partial	Non-STAR Test Only	143	1	0	0	1	3	1	0
UnKnown TestType	Partial	STAR Test and Repair	438	22	0	5	12	30	12	11
UnKnown TestType	Partial	STAR Test Only	343	22	0	5	12	26	12	11
UnKnown TestType	Unknown Program	Basic Area Dealer	19	0	0	0	0	4	0	0
UnKnown TestType	Unknown Program	Government Fleet	0	0	0	0	0	36	0	0
UnKnown TestType	Unknown Program	Non-STAR Test and Repair	490	10	0	3	5	51	5	6
UnKnown TestType	Unknown Program	Non-STAR Test Only	55	2	0	0	2	2	2	0
UnKnown TestType	Unknown Program	Referee	19	2	0	2	0	2	0	2
UnKnown TestType	Unknown Program	STAR Test and Repair	387	15	0	2	11	37	11	6
UnKnown TestType	Unknown Program	STAR Test Only	447	19	0	7	10	44	10	9