

Executive Summary Report

SMOG CHECK Statewide

June 2013

1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	962,749	112,445	11.68%
Total	1,096,862	143,981	13.13%

2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	841,963	87.45%	120,786	12.55%
Total	941,452	85.83%	155,410	14.17%

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	411,935	86.13%	66,336	13.87%
Non-STAR Test Only	60,591	89.68%	6,972	10.32%
STAR Test and Repair	176,757	86.89%	26,676	13.11%
Non-STAR Test and Repair	185,758	91.58%	17,087	8.42%
Total	835,041	86.74%	127,708	13.26%

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

4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	11,767	1.22%
All Emissions	51,154	5.31%
All Visual	19,972	2.07%
All Functional	70,976	7.37%
OBDII	47,543	4.94%
Overall	112,445	11.68%

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	208,322	650	163,886	86
Non-Directed	269,949	66,913	248,049	60,505
Total	478,271	67,563	411,935	60,591

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	67,470	1,644	52,668	298
Non-Directed	135,963	201,201	124,089	185,460
Total	203,433	202,845	176,757	185,758

7. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	772,321	94,573	12.25%	9,703	1.26%
Partially Enhanced	50,259	5,941	11.82%	620	1.23%
Basic	86,748	7,149	8.24%	819	0.94%
Change of Ownership	5,543	748	13.49%	140	2.53%
No Program	3	0	0.00%	0	0.00%
Unknown Program	47,875	4,034	8.43%	485	1.01%
Total Program Area	962,749	112,445	11.68%	11,767	1.22%

8. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
STAR Test Only	478,271	65,256	13.64%	6,972	1.46%
Non-STAR Test Only	67,563	6,454	9.55%	607	0.90%
STAR Test and Repair	203,433	25,659	12.61%	2,662	1.31%
Non-STAR Test and Repair	202,845	14,036	6.92%	1,391	0.69%
Basic Area Dealer	4,647	158	3.40%	8	0.17%
Business Fleet	0	0	0.00%	0	0.00%
Permanent Fleet Registered	33	0	0.00%	0	0.00%
Referee	429	200	46.62%	26	6.06%
Government Fleet	2,861	255	8.91%	40	1.40%
Unknown Privilege	2,667	427	16.01%	61	2.29%
Total	962,749	112,445	11.68%	11,767	1.22%

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	1,591	68	27	0	0	1,686
STAR Regular Test and Repair CAP Basic	0	0	89	0	0	89
STAR Regular Test and Repair COO	13	1	0	61	0	75
STAR Test Only	1,665	25	14	0	0	1,704
Non-STAR Regular Test and Repair	2,501	251	496	45	0	3,293
Non-STAR Test Only	861	22	14	0	0	897
Repair Only	61	1	3	0	0	65
Basic Area Dealer	0	0	83	0	0	83
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	11	0	0	0	0	11
Total	7,018	378	773	109	0	8,278

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-1951	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1968	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1970	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1975	1	1	100.00%	100.00%	100.00%	0.00%	0.00%	0.00%
MY-1976	857	267	31.16%	19.84%	8.52%	17.85%	10.39%	0.00%
MY-1977	1,089	355	32.60%	21.21%	9.46%	20.57%	11.66%	0.00%
MY-1978	1,313	453	34.50%	22.09%	8.76%	20.03%	11.81%	0.00%
MY-1979	1,231	424	34.44%	24.61%	9.10%	18.20%	10.48%	0.00%
MY-1980	789	272	34.47%	23.07%	10.90%	19.26%	12.17%	0.00%
MY-1981	971	331	34.09%	24.10%	9.37%	18.85%	11.74%	0.00%
MY-1982	971	355	36.56%	27.60%	11.95%	20.08%	11.84%	0.00%
MY-1983	1,457	495	33.97%	24.91%	9.20%	16.88%	10.36%	0.00%
MY-1984	2,407	883	36.68%	27.84%	11.13%	18.65%	10.39%	0.00%
MY-1985	3,217	1,165	36.21%	26.80%	11.10%	18.53%	10.57%	0.00%
MY-1986	4,598	1,593	34.65%	24.45%	9.13%	18.49%	9.26%	0.00%
MY-1987	5,173	1,761	34.04%	25.19%	8.74%	16.66%	8.53%	0.00%
MY-1988	6,350	2,102	33.10%	24.54%	8.69%	16.47%	7.83%	0.00%
MY-1989	8,760	2,715	30.99%	21.88%	6.45%	16.47%	7.15%	0.00%
MY-1990	10,947	3,393	30.99%	22.71%	6.22%	15.06%	6.02%	0.00%
MY-1991	13,208	4,005	30.32%	22.43%	6.19%	14.91%	5.47%	0.00%
MY-1992	13,963	4,298	30.78%	23.02%	5.99%	13.95%	5.91%	0.00%
MY-1993	17,043	5,450	31.98%	25.17%	5.02%	12.87%	5.72%	0.00%
MY-1994	20,077	5,990	29.84%	22.12%	4.66%	12.67%	5.14%	0.00%
MY-1995	29,977	7,626	25.44%	18.30%	3.39%	10.65%	4.32%	0.00%
MY-1996	23,481	5,557	23.67%	12.61%	2.04%	13.71%	4.25%	11.81%
MY-1997	42,627	7,903	18.54%	8.83%	1.33%	11.10%	3.05%	9.54%
MY-1998	37,177	6,364	17.12%	7.31%	1.31%	10.78%	2.91%	9.68%
MY-1999	63,028	7,626	12.10%	3.92%	0.71%	8.34%	2.31%	7.55%
MY-2000	44,476	5,838	13.13%	3.77%	0.63%	9.58%	2.23%	9.01%
MY-2001	90,647	10,219	11.27%	1.78%	0.32%	9.42%	1.60%	9.13%
MY-2002	41,211	4,626	11.23%	2.10%	0.42%	9.22%	1.75%	8.98%
MY-2003	106,226	7,224	6.80%	0.94%	0.19%	5.60%	1.02%	5.44%
MY-2004	37,556	2,593	6.90%	1.09%	0.19%	5.72%	0.97%	5.61%
MY-2005	129,617	5,570	4.30%	0.47%	0.07%	3.58%	0.61%	3.50%
MY-2006	31,948	1,406	4.40%	0.72%	0.06%	3.63%	0.59%	3.56%

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-2007	123,970	2,846	2.30%	0.26%	0.04%	1.85%	0.32%	1.80%
MY-2008	14,459	307	2.12%	0.50%	0.08%	1.62%	0.34%	1.57%
MY-2009	9,661	167	1.73%	0.38%	0.04%	1.44%	0.21%	1.40%
MY-2010	5,788	82	1.42%	0.28%	0.03%	1.23%	0.05%	1.17%
MY-2011	6,881	83	1.21%	0.25%	0.01%	0.96%	0.16%	0.94%
MY-2012	6,571	67	1.02%	0.40%	0.03%	0.81%	0.09%	0.79%
MY-2013	2,830	33	1.17%	0.25%	0.04%	0.88%	0.18%	0.85%
MY-2014	193	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
All Model Years	962,749	112,445	11.68%	5.31%	1.22%	7.37%	2.07%	4.94%

11. Referee Activity

	Certificates Issued
Certificate of Compliance	423
Certificate of Non Compliance	1
Parts Cost	105
Hardship Extensions	0
Exempt Vehicle	33
Exempted by Directive	3
Parts Exemption	12
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	577

12. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,225
Stations Locked-Out at Least Once	1,052
Stations Conducted at Least One Test	7,053

13. Active Technicians

License Type	Technician Count	Daily Average
EA (Test and Repair Enhanced)	5,027	3,111
EB (Test and Repair Basic)	221	0
EI (Repair Only)	0	0
EO (Test and Repair)	4,827	2,949
EO (Test Only)	715	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	153,827	47.20	43,906	46.76	197,733	47.10
STAR Test Only	402,852	48.21	65,016	49.55	467,868	48.39
Non-STAR Test and Repair	116,142	49.22	77,860	46.13	194,002	47.98
Non-STAR Test Only	49,983	43.22	14,230	42.07	64,213	42.96
Test and Repair Dealer	11	58.82	4,279	53.55	4,290	53.56
Total	722,815	47.81	205,291	47.22	928,106	47.68

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	2,537	24.01	10,894	307.85
	\$51-150	1,983	101.18		
	\$151-250	1,580	202.66		
	\$251-450	2,333	340.91		
	Over \$450	2,461	803.19		
Non-STAR Repairs (Test and Repair)	\$1-50	1,478	22.41	5,914	262.31
	\$51-150	1,357	100.88		
	\$151-250	997	200.57		
	\$251-450	1,171	340.11		
	Over \$450	911	859.56		
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	62	21.98	920	387.47
	\$51-150	105	105.12		
	\$151-250	97	202.97		

Repair Station Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
	\$251-450	240	361.34		
	Over \$450	416	571.29		
Total Repairs	\$1-50	4,077	23.40	17,728	296.79
	\$51-150	3,445	101.18		
	\$151-250	2,674	201.89		
	\$251-450	3,744	341.97		
	Over \$450	3,788	791.28		

16. CAP Repair Costs

CAP Repairs	Total Vehicles	Average Repair Cost
	958	377.11

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	52	5	1	0	2	3	3	1
Acceleration Simulation Mode (ASM)	Basic	Non-STAR Test Only	13	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Basic	STAR Test and Repair	47	9	2	1	2	5	6	1
Acceleration Simulation Mode (ASM)	Basic	STAR Test Only	56	10	2	1	6	3	6	3
Acceleration Simulation Mode (ASM)	Change of Ownership	Non-STAR Test and Repair	17	3	0	1	2	1	2	1
Acceleration Simulation Mode (ASM)	Change of Ownership	STAR Test and Repair	2	2	0	0	0	2	0	0
Acceleration Simulation Mode (ASM)	Change of Ownership	STAR Test Only	8	5	1	1	0	3	2	2
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	44	1	1	28	14	30	1
Acceleration Simulation Mode (ASM)	Enhanced	Non-STAR Test and Repair	80,060	5,583	448	481	3,024	1,996	3,904	920
Acceleration Simulation Mode (ASM)	Enhanced	Non-STAR Test Only	39,064	4,319	385	454	2,233	1,634	3,064	796
Acceleration Simulation Mode (ASM)	Enhanced	Referee	116	124	16	57	19	49	59	78
Acceleration Simulation Mode (ASM)	Enhanced	STAR Test and Repair	120,128	19,674	1,959	1,741	7,876	9,372	12,049	3,605
Acceleration Simulation Mode (ASM)	Enhanced	STAR Test Only	325,335	57,114	6,177	4,656	21,474	28,696	34,228	10,243
Acceleration Simulation Mode (ASM)	Enhanced	Unknown Privilege	1,867	395	55	30	150	239	244	45
Acceleration Simulation Mode (ASM)	Partial	Non-STAR Test and Repair	17,161	2,319	250	134	891	1,231	1,334	266

	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	Non-STAR Test Only	3,756	577	59	48	221	279	336	94
Acceleration Simulation Mode (ASM)	Partial	Referee	6	11	1	6	2	2	7	7
Acceleration Simulation Mode (ASM)	Partial	STAR Test and Repair	7,336	1,245	137	95	519	597	764	187
Acceleration Simulation Mode (ASM)	Partial	STAR Test Only	8,508	1,364	131	108	558	643	810	197
Acceleration Simulation Mode (ASM)	Partial	Unknown Privilege	17	3	1	0	0	2	2	0
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	188	34	0	21	161	32	1
Acceleration Simulation Mode (ASM)	Unknown Program	Non-STAR Test and Repair	9,363	621	59	55	308	268	396	101
Acceleration Simulation Mode (ASM)	Unknown Program	Non-STAR Test Only	2,744	347	36	49	167	159	237	66
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	13	11	1	5	3	5	7	8
Acceleration Simulation Mode (ASM)	Unknown Program	STAR Test and Repair	4,923	594	72	58	269	277	373	107
Acceleration Simulation Mode (ASM)	Unknown Program	STAR Test Only	10,636	1,388	176	132	642	644	887	299
Acceleration Simulation Mode (ASM)	Unknown Program	Unknown Privilege	54	9	1	1	4	5	4	1
Two Speed Idle (TSI)	Basic	Basic Area Dealer	3,257	128	7	5	73	25	100	14
Two Speed Idle (TSI)	Basic	Non-STAR Test and Repair	46,147	3,819	462	252	1,817	1,076	2,807	535
Two Speed Idle (TSI)	Basic	Non-STAR Test Only	4,786	510	54	39	235	134	348	109
Two Speed Idle (TSI)	Basic	Referee	14	23	7	8	7	7	15	12
Two Speed Idle (TSI)	Basic	STAR Test and Repair	14,331	1,731	197	134	842	457	1,275	314
Two Speed Idle (TSI)	Basic	STAR Test Only	6,231	785	87	93	361	212	540	161
Two Speed Idle (TSI)	Change of Ownership	Non-STAR Test and Repair	2,048	251	47	19	116	95	184	37
Two Speed Idle (TSI)	Change of Ownership	Non-STAR Test Only	222	36	6	7	13	16	22	12
Two Speed Idle (TSI)	Change of Ownership	Referee	1	5	0	2	0	1	4	4
Two Speed Idle (TSI)	Change of Ownership	STAR Test and Repair	1,577	305	65	22	113	126	199	50
Two Speed Idle (TSI)	Change of Ownership	STAR Test Only	638	124	20	13	57	39	91	32
Two Speed Idle (TSI)	Change of Ownership	Unknown Privilege	3	1	1	0	0	1	1	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
Two Speed Idle (TSI)	Enhanced	Basic Area Dealer	340	12	0	2	8	1	10	2
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	15	4	1	8	5	10	1
Two Speed Idle (TSI)	Enhanced	Non-STAR Test and Repair	17,361	794	70	50	515	156	625	116
Two Speed Idle (TSI)	Enhanced	Non-STAR Test Only	7,060	508	64	54	313	115	392	98
Two Speed Idle (TSI)	Enhanced	Referee	17	13	0	8	2	3	5	10
Two Speed Idle (TSI)	Enhanced	STAR Test and Repair	20,130	1,565	179	143	929	344	1,185	283
Two Speed Idle (TSI)	Enhanced	STAR Test Only	49,091	3,818	343	292	2,465	716	2,947	629
Two Speed Idle (TSI)	Enhanced	Unknown Privilege	233	16	2	2	7	7	8	2
Two Speed Idle (TSI)	Partial	Non-STAR Test and Repair	2,379	139	18	6	85	32	110	12
Two Speed Idle (TSI)	Partial	Non-STAR Test Only	414	23	0	6	13	4	13	9
Two Speed Idle (TSI)	Partial	STAR Test and Repair	1,149	85	12	6	43	25	57	13
Two Speed Idle (TSI)	Partial	STAR Test Only	1,141	82	11	8	54	22	63	10
Two Speed Idle (TSI)	Unknown Program	Basic Area Dealer	416	10	1	2	7	1	7	2
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	4	1	0	3	1	3	0
Two Speed Idle (TSI)	Unknown Program	Non-STAR Test and Repair	4,483	277	36	28	152	78	201	49
Two Speed Idle (TSI)	Unknown Program	Non-STAR Test Only	882	59	3	8	34	12	45	11
Two Speed Idle (TSI)	Unknown Program	Referee	9	7	1	2	2	2	4	4
Two Speed Idle (TSI)	Unknown Program	STAR Test and Repair	2,914	240	39	27	112	72	164	45
Two Speed Idle (TSI)	Unknown Program	STAR Test Only	3,422	206	24	31	125	40	144	45
Two Speed Idle (TSI)	Unknown Program	Unknown Privilege	10	1	1	0	0	1	0	0
UnKnown TestType	Basic	Basic Area Dealer	287	6	0	0	3	6	3	3
UnKnown TestType	Basic	Government Fleet	0	0	0	0	0	4	0	0
UnKnown TestType	Basic	Non-STAR Test and Repair	2,343	66	0	6	55	72	55	13
UnKnown TestType	Basic	Non-STAR Test Only	181	6	0	1	4	6	4	2
UnKnown TestType	Basic	STAR Test and Repair	656	30	0	4	24	30	24	8
UnKnown TestType	Basic	STAR Test Only	275	14	0	4	8	14	8	6
UnKnown TestType	Change of Ownership	Basic Area Dealer	5	1	0	0	0	1	0	1
UnKnown TestType	Change of Ownership	Non-STAR Test and Repair	79	10	0	1	9	10	9	1
UnKnown TestType	Change of Ownership	Non-STAR Test Only	8	1	0	0	1	1	1	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 and Repair	77	3	0	0	1	3	1	2
UnKnown TestType	Change of Ownership	STAR Test Only	31	1	0	0	0	1	0	1
UnKnown TestType	Enhanced	Government Fleet	0	0	0	0	0	15	0	0
UnKnown TestType	Enhanced	Non-STAR Test and Repair	2,772	78	0	8	64	87	64	19
UnKnown TestType	Enhanced	Non-STAR Test Only	1,229	54	0	13	38	65	38	18
UnKnown TestType	Enhanced	Referee	8	1	0	1	0	3	0	1
UnKnown TestType	Enhanced	STAR Test and Repair	2,744	143	0	27	103	162	103	43
UnKnown TestType	Enhanced	STAR Test Only	5,789	303	0	57	195	321	195	128
UnKnown TestType	Partial	Basic Area Dealer	13	1	0	0	1	1	1	0
UnKnown TestType	Partial	Government Fleet	0	0	0	0	0	1	0	0
UnKnown TestType	Partial	Non-STAR Test and Repair	1,007	47	0	6	34	48	34	13
UnKnown TestType	Partial	Non-STAR Test Only	138	7	0	2	3	7	3	5
UnKnown TestType	Partial	Referee	0	1	0	1	0	1	0	1
UnKnown TestType	Partial	STAR Test and Repair	461	18	0	4	9	18	9	11
UnKnown TestType	Partial	STAR Test Only	369	19	0	5	9	19	9	11
UnKnown TestType	Unknown Program	Government Fleet	0	0	0	0	0	37	0	0
UnKnown TestType	Unknown Program	Non-STAR Test and Repair	486	24	0	4	16	38	16	8
UnKnown TestType	Unknown Program	Non-STAR Test Only	91	6	0	1	4	8	4	3
UnKnown TestType	Unknown Program	Referee	21	4	0	3	1	4	1	3
UnKnown TestType	Unknown Program	STAR Test and Repair	281	15	0	3	9	21	9	7
UnKnown TestType	Unknown Program	STAR Test Only	404	23	0	7	14	33	14	11