

Executive Summary Report

SMOG CHECK Statewide

April 2013

1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	983,187	124,218	12.63%
Total	1,131,572	159,274	14.08%

2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	847,913	86.24%	135,274	13.76%
Total	957,467	84.61%	174,105	15.39%

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	396,909	84.88%	70,694	15.12%
Non-STAR Test Only	84,968	88.27%	11,294	11.73%
STAR Test and Repair	158,225	85.06%	27,799	14.94%
Non-STAR Test and Repair	202,717	90.73%	20,707	9.27%
Total	842,819	85.72%	140,368	14.28%

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

4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	12,905	1.31%
All Emissions	56,335	5.73%
All Visual	22,502	2.29%
All Functional	79,512	8.09%
OBDII	52,404	5.33%
Overall	124,218	12.63%

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	208,933	6,561	161,409	4,383
Non-Directed	258,670	89,701	235,500	80,585
Total	467,603	96,262	396,909	84,968

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	63,646	2,382	48,007	715
Non-Directed	122,378	221,042	110,218	202,002
Total	186,024	223,424	158,225	202,717

7. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	784,092	104,112	13.28%	10,516	1.34%
Partially Enhanced	51,201	6,692	13.07%	690	1.35%
Basic	88,433	8,040	9.09%	1,007	1.14%
Change of Ownership	6,572	884	13.45%	162	2.47%
No Program	7	2	28.57%	0	0.00%
Unknown Program	52,882	4,488	8.49%	530	1.00%
Total Program Area	983,187	124,218	12.63%	12,905	1.31%

8. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
STAR Test Only	467,603	69,418	14.85%	7,234	1.55%
Non-STAR Test Only	96,262	10,606	11.02%	1,056	1.10%
STAR Test and Repair	186,024	26,532	14.26%	2,850	1.53%
Non-STAR Test and Repair	223,424	16,895	7.56%	1,669	0.75%
Basic Area Dealer	5,053	179	3.54%	14	0.28%
Business Fleet	6	1	16.67%	0	0.00%
Permanent Fleet Registered	40	3	7.50%	1	2.50%
Referee	492	238	48.37%	40	8.13%
Government Fleet	4,283	346	8.08%	41	0.96%
Unknown Privilege	0	0	0.00%		0.00%
Total	983,187	124,218	12.63%	12,905	1.31%

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	1,421	60	46	1	0	1,528
STAR Regular Test and Repair CAP Basic	0	0	61	0	0	61
STAR Regular Test and Repair COO	20	1	3	57	0	81
STAR Test Only	1,592	23	13	0	0	1,628
Non-STAR Regular Test and Repair	2,608	261	496	50	0	3,415
Non-STAR Test Only	977	25	15	0	0	1,017
Repair Only	48	0	2	0	0	50
Basic Area Dealer	0	0	85	0	0	85
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	1	0	0	0	0	1
Total	6,983	380	768	111	0	8,242

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-1967	2	1	50.00%	50.00%	50.00%	50.00%	50.00%	0.00%
MY-1970	1	1	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%
MY-1976	832	276	33.17%	20.67%	8.17%	17.79%	11.90%	0.00%
MY-1977	1,140	410	35.96%	22.28%	8.33%	22.37%	12.98%	0.00%
MY-1978	1,309	440	33.61%	21.16%	8.86%	20.32%	11.99%	0.00%
MY-1979	1,340	482	35.97%	23.58%	10.82%	21.57%	12.24%	0.00%
MY-1980	839	275	32.78%	23.12%	9.77%	20.26%	13.95%	0.00%
MY-1981	941	368	39.11%	28.27%	12.33%	22.85%	12.33%	0.00%
MY-1982	1,099	424	38.58%	28.75%	11.74%	20.47%	10.92%	0.00%
MY-1983	1,412	516	36.54%	26.91%	10.91%	17.63%	9.49%	0.00%
MY-1984	2,649	1,034	39.03%	29.97%	12.76%	21.14%	12.27%	0.00%
MY-1985	3,599	1,374	38.18%	28.31%	11.36%	19.92%	11.03%	0.00%
MY-1986	4,873	1,866	38.29%	27.38%	10.32%	21.20%	10.14%	0.00%
MY-1987	5,656	2,008	35.50%	26.17%	8.84%	17.98%	8.86%	0.00%
MY-1988	6,759	2,324	34.38%	24.90%	8.24%	18.09%	8.06%	0.00%
MY-1989	9,393	3,113	33.14%	23.41%	6.72%	17.27%	7.86%	0.00%
MY-1990	11,906	3,829	32.16%	23.12%	6.74%	16.15%	6.24%	0.00%
MY-1991	14,369	4,413	30.71%	22.60%	6.19%	15.26%	5.63%	0.00%
MY-1992	15,040	4,787	31.83%	23.32%	6.12%	15.25%	6.02%	0.00%
MY-1993	18,152	6,044	33.30%	25.44%	5.37%	14.48%	5.97%	0.00%
MY-1994	22,448	6,938	30.91%	22.72%	4.35%	13.60%	5.79%	0.00%
MY-1995	31,849	8,603	27.01%	19.16%	3.43%	11.65%	5.01%	0.00%
MY-1996	25,426	6,400	25.17%	13.14%	1.86%	14.84%	4.52%	12.81%
MY-1997	44,868	8,779	19.57%	9.30%	1.43%	11.90%	3.26%	10.30%
MY-1998	39,999	7,327	18.32%	7.53%	1.17%	12.06%	3.14%	10.78%
MY-1999	65,636	8,488	12.93%	4.12%	0.72%	9.21%	2.29%	8.34%
MY-2000	48,271	6,658	13.79%	3.75%	0.67%	10.31%	2.48%	9.77%
MY-2001	92,528	10,731	11.60%	1.69%	0.34%	9.77%	1.68%	9.48%
MY-2002	44,786	5,309	11.85%	2.13%	0.43%	9.86%	1.84%	9.63%
MY-2003	103,671	7,582	7.31%	0.99%	0.23%	6.06%	1.11%	5.91%
MY-2004	40,581	3,028	7.46%	1.11%	0.20%	6.16%	1.17%	6.03%
MY-2005	116,669	5,142	4.41%	0.51%	0.08%	3.63%	0.63%	3.57%
MY-2006	35,443	1,599	4.51%	0.71%	0.12%	3.64%	0.65%	3.56%
MY-2007	120,416	2,860	2.38%	0.22%	0.04%	1.96%	0.31%	1.92%
MY-2008	14,982	331	2.21%	0.53%	0.05%	1.72%	0.31%	1.66%

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	10,062	166	1.65%	0.26%	0.02%	1.39%	0.15%	1.37%
MY-2010	6,507	100	1.54%	0.29%	0.09%	1.31%	0.09%	1.28%
MY-2011	7,602	84	1.10%	0.43%	0.00%	0.91%	0.14%	0.89%
MY-2012	7,798	71	0.91%	0.10%	0.03%	0.78%	0.05%	0.72%
MY-2013	2,300	37	1.61%	0.52%	0.00%	1.04%	0.52%	1.00%
MY-2014	33	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	983,187	124,218	12.63%	5.73%	1.31%	8.09%	2.29%	5.33%

11. Referee Activity

	Certificates Issued
Certificate of Compliance	509
Certificate of Non Compliance	0
Parts Cost	134
Hardship Extensions	0
Exempt Vehicle	25
Exempted by Directive	7
Parts Exemption	14
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	689

12. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,202
Stations Locked-Out at Least Once	1,005
Stations Conducted at Least One Test	7,040

13. Active Technicians

License Type	Technician Count	Daily Average
EA (Test and Repair Enhanced)	5,990	3,721
EB (Test and Repair Basic)	269	0
EI (Repair Only)	3	0
EO (Test and Repair)	4,009	2,470
EO (Test Only)	516	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	141,360	47.33	40,236	46.42	181,596	47.13
STAR Test Only	394,428	48.36	60,749	49.91	455,177	48.56
Non-STAR Test and Repair	130,566	48.94	84,624	46.63	215,190	48.03
Non-STAR Test Only	73,906	43.68	18,281	42.59	92,187	43.47
Test and Repair Dealer	7	70.71	4,756	51.27	4,763	51.30
Total	740,267	47.80	208,646	47.29	948,913	47.69

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	2,602	24.30	11,415	305.87
	\$51-150	2,053	101.06		
	\$151-250	1,672	202.17		
	\$251-450	2,489	343.00		
	Over \$450	2,599	780.68		
Non-STAR Repairs (Test and Repair)	\$1-50	1,774	22.95	7,035	264.66
	\$51-150	1,570	100.01		
	\$151-250	1,214	201.92		
	\$251-450	1,425	339.23		
	Over \$450	1,052	889.34		
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	48	26.17	1,071	395.76
	\$51-150	111	107.74		
	\$151-250	112	204.35		
	\$251-450	298	361.09		

Repair Station Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
	Over \$450	502	558.06		
Total Repairs	\$1-50	4,424	23.78	19,521	295.95
	\$51-150	3,734	100.82		
	\$151-250	2,998	202.15		
	\$251-450	4,212	343.01		
	Over \$450	4,153	781.30		

16. CAP Repair Costs

CAP Repairs	Total Vehicles	Average Repair Cost
	1,081	381.52

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	98	3	1	0	1	1	2	0
Acceleration Simulation Mode (ASM)	Basic	Non-STAR Test Only	29	4	1	0	3	2	4	0
Acceleration Simulation Mode (ASM)	Basic	STAR Test and Repair	52	7	0	1	2	5	3	1
Acceleration Simulation Mode (ASM)	Basic	STAR Test Only	45	12	1	0	4	6	6	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Non-STAR Test and Repair	12	2	1	0	0	1	1	1
Acceleration Simulation Mode (ASM)	Change of Ownership	STAR Test and Repair	3	1	1	0	1	1	1	0
Acceleration Simulation Mode (ASM)	Change of Ownership	STAR Test Only	9	3	0	0	2	2	2	1
Acceleration Simulation Mode (ASM)	Enhanced	Business-Fleet	4	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	82	0	3	56	15	66	3
Acceleration Simulation Mode (ASM)	Enhanced	Non-STAR Test and Repair	89,308	6,902	560	580	3,737	2,549	4,831	1,103
Acceleration Simulation Mode (ASM)	Enhanced	Non-STAR Test Only	57,588	7,610	741	859	3,649	3,134	5,350	1,582
Acceleration Simulation Mode (ASM)	Enhanced	Referee	125	142	22	65	37	62	78	89
Acceleration Simulation Mode (ASM)	Enhanced	STAR Test and Repair	107,003	20,619	2,148	1,899	8,169	9,856	12,835	3,918
Acceleration Simulation Mode (ASM)	Enhanced	STAR Test Only	316,173	61,112	6,394	5,235	22,944	30,561	37,063	11,143
Acceleration Simulation Mode (ASM)	No Program	STAR Test Only	0	2	0	0	1	2	1	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	Government Fleet	0	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Non-STAR Test and Repair	18,085	2,688	280	158	1,040	1,382	1,544	337
Acceleration Simulation Mode (ASM)	Partial	Non-STAR Test Only	4,478	806	73	68	321	375	514	143
Acceleration Simulation Mode (ASM)	Partial	Referee	10	10	3	6	2	7	4	8
Acceleration Simulation Mode (ASM)	Partial	STAR Test and Repair	6,769	1,243	133	100	482	623	752	226
Acceleration Simulation Mode (ASM)	Partial	STAR Test Only	7,991	1,418	155	108	540	740	828	212
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	238	39	1	31	193	47	2
Acceleration Simulation Mode (ASM)	Unknown Program	Non-STAR Test and Repair	11,338	710	71	61	355	318	465	107
Acceleration Simulation Mode (ASM)	Unknown Program	Non-STAR Test Only	3,993	530	67	60	259	241	358	119
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	12	13	3	8	1	7	5	11
Acceleration Simulation Mode (ASM)	Unknown Program	STAR Test and Repair	4,492	622	72	57	301	283	409	124
Acceleration Simulation Mode (ASM)	Unknown Program	STAR Test Only	10,284	1,383	171	132	635	649	872	269
Two Speed Idle (TSI)	Basic	Basic Area Dealer	3,392	144	10	8	75	29	111	22
Two Speed Idle (TSI)	Basic	Non-STAR Test and Repair	47,724	4,487	562	272	2,095	1,308	3,318	617
Two Speed Idle (TSI)	Basic	Non-STAR Test Only	5,516	613	73	21	302	199	423	80
Two Speed Idle (TSI)	Basic	Referee	18	25	8	11	5	11	18	15
Two Speed Idle (TSI)	Basic	STAR Test and Repair	13,666	1,791	236	148	811	504	1,289	363
Two Speed Idle (TSI)	Basic	STAR Test Only	5,644	840	115	81	374	240	600	174
Two Speed Idle (TSI)	Change of Ownership	Basic Area Dealer	35	3	2	0	1	2	3	2
Two Speed Idle (TSI)	Change of Ownership	Non-STAR Test and Repair	2,765	425	68	27	199	152	319	64
Two Speed Idle (TSI)	Change of Ownership	Non-STAR Test Only	306	46	9	4	18	18	30	9
Two Speed Idle (TSI)	Change of Ownership	STAR Test and Repair	1,597	268	55	20	98	112	184	43
Two Speed Idle (TSI)	Change of Ownership	STAR Test Only	674	120	26	9	43	43	85	25
Two Speed Idle (TSI)	Enhanced	Basic Area Dealer	413	17	2	1	8	3	13	2

	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	Government Fleet	0	14	1	0	6	4	10	0
Two Speed Idle (TSI)	Enhanced	Non-STAR Test and Repair	19,190	924	75	71	630	179	742	122
Two Speed Idle (TSI)	Enhanced	Non-STAR Test Only	9,724	755	73	72	461	162	578	126
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	26	2	1	0	1	1	1	0
Two Speed Idle (TSI)	Enhanced	Referee	36	23	2	9	7	5	11	12
Two Speed Idle (TSI)	Enhanced	STAR Test and Repair	17,507	1,498	151	123	895	321	1,135	253
Two Speed Idle (TSI)	Enhanced	STAR Test Only	46,035	3,903	346	301	2,486	749	3,041	611
Two Speed Idle (TSI)	Partial	Basic Area Dealer	42	3	0	1	1	1	1	1
Two Speed Idle (TSI)	Partial	Non-STAR Test and Repair	2,409	181	15	16	110	42	138	23
Two Speed Idle (TSI)	Partial	Non-STAR Test Only	472	62	7	5	39	12	47	11
Two Speed Idle (TSI)	Partial	STAR Test and Repair	1,005	97	21	6	45	30	72	20
Two Speed Idle (TSI)	Partial	STAR Test Only	1,041	100	3	12	59	14	72	23
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	9	1	0	6	2	7	0
Two Speed Idle (TSI)	Unknown Program	Non-STAR Test and Repair	5,488	367	36	42	205	95	279	75
Two Speed Idle (TSI)	Unknown Program	Non-STAR Test Only	1,058	92	12	12	56	25	67	21
Two Speed Idle (TSI)	Unknown Program	Referee	13	7	2	3	1	2	4	7
Two Speed Idle (TSI)	Unknown Program	STAR Test and Repair	2,715	217	33	20	114	60	160	39
Two Speed Idle (TSI)	Unknown Program	STAR Test Only	3,204	237	23	22	153	47	183	47
UnKnown TestType	Basic	Basic Area Dealer	225	5	0	1	3	6	3	2
UnKnown TestType	Basic	Government Fleet	0	0	0	0	0	4	0	0
UnKnown TestType	Basic	Non-STAR Test and Repair	2,031	62	0	8	45	70	45	20
UnKnown TestType	Basic	Non-STAR Test Only	165	8	0	1	6	8	6	4
UnKnown TestType	Basic	Referee	2	2	0	2	0	2	0	2
UnKnown TestType	Basic	STAR Test and Repair	544	26	0	2	19	28	19	9
UnKnown TestType	Basic	STAR Test Only	252	9	0	3	4	10	4	5
UnKnown TestType	Change of Ownership	Non-STAR Test and Repair	105	8	0	3	6	8	6	3
UnKnown TestType	Change of Ownership	STAR Test and Repair	82	4	0	0	3	4	3	1
UnKnown TestType	Change of Ownership	STAR Test Only	26	4	0	0	1	4	1	3
UnKnown TestType	Enhanced	Government Fleet	0	0	0	0	0	30	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
UnKnown TestType	Enhanced	Non-STAR Test and Repair	2,710	87	0	10	60	109	60	34
UnKnown TestType	Enhanced	Non-STAR Test Only	1,317	66	0	11	46	68	46	21
UnKnown TestType	Enhanced	Referee	11	5	0	2	2	4	2	3
UnKnown TestType	Enhanced	STAR Test and Repair	2,168	105	0	16	75	132	75	33
UnKnown TestType	Enhanced	STAR Test Only	4,877	244	0	39	169	272	169	91
UnKnown TestType	Partial	Government Fleet	0	0	0	0	0	3	0	0
UnKnown TestType	Partial	Non-STAR Test and Repair	870	34	0	9	22	36	22	14
UnKnown TestType	Partial	Non-STAR Test Only	154	9	0	2	6	9	6	3
UnKnown TestType	Partial	STAR Test and Repair	336	19	0	5	11	19	11	8
UnKnown TestType	Partial	STAR Test Only	276	19	0	5	15	19	15	6
UnKnown TestType	Unknown Program	Government Fleet	0	0	0	0	0	14	0	0
UnKnown TestType	Unknown Program	Non-STAR Test and Repair	584	15	0	3	11	30	11	4
UnKnown TestType	Unknown Program	Non-STAR Test Only	146	5	0	2	4	5	4	3
UnKnown TestType	Unknown Program	Referee	12	9	0	9	0	9	0	9
UnKnown TestType	Unknown Program	STAR Test and Repair	286	15	0	2	8	19	8	7
UnKnown TestType	Unknown Program	STAR Test Only	377	12	0	4	5	24	5	8