

Executive Summary Report

SMOG CHECK Statewide

July 2013

1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	1,010,628	117,874	11.66%
Total	1,148,265	149,862	13.05%

2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	885,206	87.59%	125,422	12.41%
Total	987,783	86.02%	160,482	13.98%

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	434,363	86.15%	69,857	13.85%
Non-STAR Test Only	59,074	89.88%	6,654	10.12%
STAR Test and Repair	192,748	87.06%	28,641	12.94%
Non-STAR Test and Repair	191,973	91.68%	17,429	8.32%
Total	878,158	86.89%	132,470	13.11%

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

4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	12,111	1.20%
All Emissions	53,555	5.30%
All Visual	21,562	2.13%
All Functional	73,961	7.32%
OBDII	49,175	4.87%
Overall	117,874	11.66%

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	214,186	641	168,101	126
Non-Directed	290,034	65,087	266,262	58,948
Total	504,220	65,728	434,363	59,074

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	70,981	1,449	55,519	208
Non-Directed	150,408	207,953	137,229	191,765
Total	221,389	209,402	192,748	191,973

7. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	808,471	98,923	12.24%	9,982	1.23%
Partially Enhanced	52,497	6,278	11.96%	627	1.19%
Basic	92,098	7,635	8.29%	872	0.95%
Change of Ownership	6,112	752	12.30%	127	2.08%
No Program	4	0	0.00%	0	0.00%
Unknown Program	51,446	4,286	8.33%	503	0.98%
Total Program Area	1,010,628	117,874	11.66%	12,111	1.20%

8. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
STAR Test Only	504,220	68,756	13.64%	7,244	1.44%
Non-STAR Test Only	65,728	6,267	9.53%	569	0.87%
STAR Test and Repair	221,389	27,438	12.39%	2,756	1.24%
Non-STAR Test and Repair	209,402	14,484	6.92%	1,401	0.67%
Basic Area Dealer	4,736	131	2.77%	8	0.17%
Business Fleet	1	0	0.00%	0	0.00%
Permanent Fleet Registered	32	2	6.25%	0	0.00%
Referee	471	237	50.32%	45	9.55%
Government Fleet	2,021	186	9.20%	19	0.94%
Unknown Privilege	2,628	373	14.19%	69	2.63%
Total	1,010,628	117,874	11.66%	12,111	1.20%

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	1,625	71	28	0	0	1,724
STAR Regular Test and Repair CAP Basic	0	0	90	0	0	90
STAR Regular Test and Repair COO	19	1	0	63	0	83
STAR Test Only	1,736	26	14	0	0	1,776
Non-STAR Regular Test and Repair	2,446	246	495	43	0	3,230
Non-STAR Test Only	767	20	17	0	0	804
Repair Only	63	2	3	0	0	68
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	10	0	0	0	0	10
Total	6,981	376	777	109	0	8,243

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	813	274	33.70%	22.26%	8.61%	18.94%	11.32%	0.00%
MY-1977	1,022	349	34.15%	21.72%	8.90%	20.06%	10.67%	0.00%
MY-1978	1,266	412	32.54%	19.51%	7.90%	19.51%	10.58%	0.00%
MY-1979	1,283	459	35.78%	24.16%	10.05%	19.64%	10.44%	0.00%
MY-1980	780	287	36.79%	25.38%	12.82%	19.74%	11.03%	0.00%
MY-1981	916	340	37.12%	27.18%	9.61%	17.03%	12.12%	0.00%
MY-1982	955	347	36.34%	26.28%	12.25%	19.16%	11.52%	0.00%
MY-1983	1,446	545	37.69%	29.32%	11.00%	19.64%	11.07%	0.00%
MY-1984	2,361	891	37.74%	28.63%	11.69%	19.31%	10.50%	0.00%
MY-1985	3,263	1,176	36.04%	26.94%	9.96%	18.45%	10.57%	0.00%
MY-1986	4,682	1,630	34.81%	25.14%	9.25%	17.90%	9.16%	0.00%
MY-1987	5,314	1,870	35.19%	25.89%	9.28%	17.61%	8.88%	0.00%
MY-1988	6,476	2,224	34.34%	25.22%	8.46%	17.60%	7.71%	0.00%
MY-1989	9,039	2,961	32.76%	23.46%	7.14%	16.67%	7.25%	0.00%
MY-1990	11,179	3,491	31.23%	23.51%	6.18%	14.73%	5.98%	0.00%
MY-1991	13,648	4,197	30.75%	22.41%	6.01%	14.81%	5.77%	0.00%
MY-1992	14,036	4,365	31.10%	22.53%	6.16%	14.33%	6.41%	0.00%
MY-1993	17,656	5,726	32.43%	24.83%	5.26%	13.70%	5.75%	0.00%
MY-1994	20,510	6,317	30.80%	23.09%	4.49%	12.94%	6.01%	0.00%
MY-1995	31,181	8,109	26.01%	18.48%	3.28%	11.02%	4.71%	0.00%
MY-1996	24,617	5,776	23.46%	12.82%	1.91%	13.38%	4.27%	11.45%
MY-1997	44,482	8,432	18.96%	9.11%	1.34%	11.30%	3.03%	9.60%
MY-1998	38,525	6,710	17.42%	7.40%	1.27%	11.02%	3.14%	9.68%
MY-1999	64,380	7,973	12.38%	3.99%	0.67%	8.57%	2.35%	7.65%
MY-2000	45,991	6,068	13.19%	3.79%	0.70%	9.55%	2.35%	8.98%
MY-2001	94,018	10,447	11.11%	1.77%	0.33%	9.19%	1.68%	8.86%
MY-2002	43,915	4,949	11.27%	1.99%	0.37%	9.12%	1.96%	8.89%
MY-2003	113,263	7,643	6.75%	0.96%	0.19%	5.50%	1.08%	5.32%
MY-2004	39,338	2,680	6.81%	1.05%	0.20%	5.54%	1.15%	5.39%
MY-2005	138,422	5,820	4.20%	0.49%	0.08%	3.47%	0.61%	3.39%
MY-2006	33,845	1,412	4.17%	0.81%	0.10%	3.28%	0.64%	3.22%
MY-2007	131,293	3,192	2.43%	0.26%	0.04%	1.96%	0.35%	1.91%
MY-2008	15,982	312	1.95%	0.52%	0.04%	1.51%	0.22%	1.43%
MY-2009	10,221	179	1.75%	0.30%	0.03%	1.48%	0.14%	1.42%
MY-2010	6,259	77	1.23%	0.22%	0.00%	0.96%	0.19%	0.96%

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	7,855	110	1.40%	0.38%	0.00%	1.20%	0.10%	1.15%
MY-2012	6,859	83	1.21%	0.28%	0.00%	1.05%	0.09%	1.01%
MY-2013	3,316	39	1.18%	0.24%	0.00%	0.97%	0.12%	0.97%
MY-2014	221	2	0.90%	0.00%	0.00%	0.90%	0.00%	0.45%
All Model Years	1,010,628	117,874	11.66%	5.30%	1.20%	7.32%	2.13%	4.87%

11. Referee Activity

	Certificates Issued
Certificate of Compliance	475
Certificate of Non Compliance	0
Parts Cost	94
Hardship Extensions	0
Exempt Vehicle	28
Exempted by Directive	4
Parts Exemption	10
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	611

12. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,206
Stations Locked-Out at Least Once	989
Stations Conducted at Least One Test	7,037

13. Active Technicians

License Type	Technician Count	Daily Average
EA (Test and Repair Enhanced)	4,706	2,824
EB (Test and Repair Basic)	202	0
EI (Repair Only)	0	0
EO (Test and Repair)	5,213	3,184
EO (Test Only)	813	535

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	167,004	46.91	48,426	46.64	215,430	46.85
STAR Test Only	423,313	48.33	69,058	49.91	492,371	48.55
Non-STAR Test and Repair	118,564	49.74	82,413	46.48	200,977	48.40
Non-STAR Test Only	48,447	43.72	13,975	42.04	62,422	43.34
Test and Repair Dealer	14	69.64	4,390	55.73	4,404	55.77
Total	757,342	47.94	218,262	47.50	975,604	47.84

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	2,637	24.14	11,521	309.24
	\$51-150	2,140	99.21		
	\$151-250	1,617	202.25		
	\$251-450	2,569	341.31		
	Over \$450	2,558	814.28		
Non-STAR Repairs (Test and Repair)	\$1-50	1,532	22.95	5,940	261.79
	\$51-150	1,368	101.44		
	\$151-250	965	200.96		
	\$251-450	1,188	336.81		
	Over \$450	887	887.32		
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	45	22.51	839	404.49
	\$51-150	107	103.44		
	\$151-250	101	198.66		
	\$251-450	178	365.94		
	Over \$450	408	593.34		
Total Repairs	\$1-50	4,214	23.69	18,300	298.21
	\$51-150	3,615	100.18		

Repair Station Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
	\$151-250	2,683	201.65		
	\$251-450	3,935	341.06		
	Over \$450	3,853	807.70		

16. CAP Repair Costs

	Total Vehicles	Average Repair Cost
CAP Repairs	867	386.07

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	72	10	0	0	5	5	6	0
Acceleration Simulation Mode (ASM)	Basic	Non-STAR Test Only	18	1	1	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Basic	Referee	3	1	1	0	0	1	0	1
Acceleration Simulation Mode (ASM)	Basic	STAR Test and Repair	33	7	1	1	2	3	4	2
Acceleration Simulation Mode (ASM)	Basic	STAR Test Only	63	11	4	1	2	10	4	2
Acceleration Simulation Mode (ASM)	Change of Ownership	Non-STAR Test Only	3	1	0	1	0	1	1	1
Acceleration Simulation Mode (ASM)	Change of Ownership	STAR Test and Repair	6	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Change of Ownership	STAR Test Only	9	3	0	0	1	1	3	1
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	44	3	0	25	15	29	0
Acceleration Simulation Mode (ASM)	Enhanced	Non-STAR Test and Repair	81,717	5,636	451	449	3,053	2,034	3,909	903
Acceleration Simulation Mode (ASM)	Enhanced	Non-STAR Test Only	37,817	4,171	352	462	2,067	1,578	2,908	873
Acceleration Simulation Mode (ASM)	Enhanced	Referee	118	168	33	62	40	78	93	88
Acceleration Simulation Mode (ASM)	Enhanced	STAR Test and Repair	130,199	21,001	2,096	1,873	8,205	10,062	12,651	3,874
Acceleration Simulation Mode (ASM)	Enhanced	STAR Test Only	341,636	60,086	6,351	5,250	22,358	30,043	35,991	11,142
Acceleration Simulation Mode (ASM)	Enhanced	Unknown Privilege	1,850	339	62	29	97	219	182	66
Acceleration Simulation Mode (ASM)	Partial	Non-STAR Test and Repair	17,604	2,358	240	124	941	1,296	1,300	263

	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	3,736	599	68	49	224	299	355	110
Acceleration Simulation Mode (ASM)	Partial	Referee	9	7	0	5	0	4	4	5
Acceleration Simulation Mode (ASM)	Partial	STAR Test and Repair	7,995	1,325	117	101	543	632	783	223
Acceleration Simulation Mode (ASM)	Partial	STAR Test Only	8,957	1,475	156	116	602	684	889	228
Acceleration Simulation Mode (ASM)	Partial	Unknown Privilege	23	3	1	0	3	1	3	1
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	118	16	0	19	98	29	0
Acceleration Simulation Mode (ASM)	Unknown Program	Non-STAR Test and Repair	9,419	639	56	47	335	263	425	92
Acceleration Simulation Mode (ASM)	Unknown Program	Non-STAR Test Only	2,742	339	29	43	172	155	244	72
Acceleration Simulation Mode (ASM)	Unknown Program	Permanent Fleet Registered	4	2	0	0	1	1	1	0
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	15	10	2	5	2	6	6	7
Acceleration Simulation Mode (ASM)	Unknown Program	STAR Test and Repair	5,750	717	89	73	350	323	455	126
Acceleration Simulation Mode (ASM)	Unknown Program	STAR Test Only	11,957	1,514	197	148	681	719	954	315
Acceleration Simulation Mode (ASM)	Unknown Program	Unknown Privilege	42	12	3	2	4	9	7	4
Two Speed Idle (TSI)	Basic	Basic Area Dealer	3,275	108	7	2	64	16	91	10
Two Speed Idle (TSI)	Basic	Government Fleet	0	7	0	0	6	1	6	0
Two Speed Idle (TSI)	Basic	Non-STAR Test and Repair	49,123	4,164	493	266	1,997	1,145	3,088	597
Two Speed Idle (TSI)	Basic	Non-STAR Test Only	4,988	516	58	42	246	144	351	109
Two Speed Idle (TSI)	Basic	Referee	9	15	5	9	2	8	12	13
Two Speed Idle (TSI)	Basic	STAR Test and Repair	15,697	1,770	184	138	816	497	1,264	314
Two Speed Idle (TSI)	Basic	STAR Test Only	6,618	877	118	94	402	251	610	183
Two Speed Idle (TSI)	Basic	Unknown Privilege	33	4	0	1	0	2	2	1
Two Speed Idle (TSI)	Change of Ownership	Non-STAR Test and Repair	2,270	240	37	24	110	82	174	40
Two Speed Idle (TSI)	Change of Ownership	Non-STAR Test Only	203	27	7	4	10	9	18	8

	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)	Change of Ownership	Referee	0	4	2	2	1	3	4	4
Two Speed Idle (TSI)	Change of Ownership	STAR Test and Repair	1,811	304	47	27	108	110	218	58
Two Speed Idle (TSI)	Change of Ownership	STAR Test Only	745	161	34	23	59	59	110	39
Two Speed Idle (TSI)	Enhanced	Non-STAR Test and Repair	17,672	733	64	58	486	142	580	103
Two Speed Idle (TSI)	Enhanced	Non-STAR Test Only	6,814	467	42	59	276	93	358	91
Two Speed Idle (TSI)	Enhanced	Referee	27	12	1	2	8	1	11	4
Two Speed Idle (TSI)	Enhanced	STAR Test and Repair	22,293	1,722	169	129	1,086	333	1,315	279
Two Speed Idle (TSI)	Enhanced	STAR Test Only	51,833	3,938	355	331	2,459	764	2,987	691
Two Speed Idle (TSI)	Enhanced	Unknown Privilege	230	11	3	2	6	3	8	2
Two Speed Idle (TSI)	Partial	Non-STAR Test and Repair	2,407	187	14	13	109	43	143	22
Two Speed Idle (TSI)	Partial	Non-STAR Test Only	433	30	3	3	21	5	22	8
Two Speed Idle (TSI)	Partial	STAR Test and Repair	1,269	111	15	7	57	30	78	18
Two Speed Idle (TSI)	Partial	STAR Test Only	1,259	101	13	8	61	25	70	20
Two Speed Idle (TSI)	Unknown Program	Basic Area Dealer	472	4	1	1	1	1	2	1
Two Speed Idle (TSI)	Unknown Program	Non-STAR Test and Repair	4,942	319	46	27	181	80	243	59
Two Speed Idle (TSI)	Unknown Program	Non-STAR Test Only	869	50	9	4	30	17	36	10
Two Speed Idle (TSI)	Unknown Program	Referee	2	6	1	3	2	1	5	5
Two Speed Idle (TSI)	Unknown Program	STAR Test and Repair	3,276	276	38	27	152	79	203	50
Two Speed Idle (TSI)	Unknown Program	STAR Test Only	4,052	221	16	30	137	39	161	55
UnKnown TestType	Basic	Basic Area Dealer	251	10	0	1	8	11	8	2
UnKnown TestType	Basic	Government Fleet	0	0	0	0	0	6	0	0
UnKnown TestType	Basic	Non-STAR Test and Repair	2,279	76	0	8	54	86	54	25
UnKnown TestType	Basic	Non-STAR Test Only	176	5	0	0	5	5	5	1
UnKnown TestType	Basic	Referee	5	3	0	3	0	3	0	3
UnKnown TestType	Basic	STAR Test and Repair	664	33	0	7	19	34	19	14
UnKnown TestType	Basic	STAR Test Only	301	17	0	8	6	16	6	11
UnKnown TestType	Change of Ownership	Non-STAR Test and Repair	93	3	0	0	3	2	3	0
UnKnown TestType	Change of Ownership	Non-STAR Test Only	12	1	0	1	0	1	0	1
UnKnown TestType	Change of Ownership	STAR Test and Repair	77	5	0	2	2	5	2	3

	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	25	1	0	0	1	1	1	0
UnKnown TestType	Change of Ownership	Unknown Privilege	0	1	0	1	1	1	1	1
UnKnown TestType	Enhanced	Basic Area Dealer	28	1	0	0	1	2	1	0
UnKnown TestType	Enhanced	Government Fleet	0	0	0	0	0	22	0	0
UnKnown TestType	Enhanced	Non-STAR Test and Repair	2,842	80	0	12	54	91	54	29
UnKnown TestType	Enhanced	Non-STAR Test Only	1,036	54	0	8	39	67	39	19
UnKnown TestType	Enhanced	Referee	11	8	0	6	1	8	2	7
UnKnown TestType	Enhanced	STAR Test and Repair	2,837	129	0	21	90	148	90	44
UnKnown TestType	Enhanced	STAR Test Only	5,988	300	0	63	177	318	177	135
UnKnown TestType	Enhanced	Unknown Privilege	45	3	0	1	1	3	1	2
UnKnown TestType	Partial	Basic Area Dealer	9	0	0	0	0	1	0	0
UnKnown TestType	Partial	Non-STAR Test and Repair	998	28	0	3	17	33	17	12
UnKnown TestType	Partial	Non-STAR Test Only	146	5	0	0	3	5	3	2
UnKnown TestType	Partial	Referee	1	1	0	1	0	1	0	1
UnKnown TestType	Partial	STAR Test and Repair	501	25	0	4	16	26	16	9
UnKnown TestType	Partial	STAR Test Only	385	21	0	6	10	23	10	11
UnKnown TestType	Unknown Program	Government Fleet	0	0	0	0	0	22	0	0
UnKnown TestType	Unknown Program	Non-STAR Test and Repair	523	11	0	4	5	21	5	6
UnKnown TestType	Unknown Program	Non-STAR Test Only	80	1	0	0	1	3	1	0
UnKnown TestType	Unknown Program	Referee	18	1	0	1	0	1	0	1
UnKnown TestType	Unknown Program	STAR Test and Repair	339	12	0	2	5	20	5	7
UnKnown TestType	Unknown Program	STAR Test Only	533	30	0	11	10	44	10	21