

Executive Summary Report

SMOG CHECK Statewide

November 2013

1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	793,181	91,861	11.58%
Total	900,955	115,721	12.84%

2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	691,077	87.13%	102,104	12.87%
Total	772,813	85.78%	128,142	14.22%

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	351,326	86.27%	55,901	13.73%
Non-STAR Test Only	33,544	90.40%	3,564	9.60%
STAR Test and Repair	165,921	86.41%	26,098	13.59%
Non-STAR Test and Repair	135,464	90.70%	13,896	9.30%
Total	686,255	86.52%	106,926	13.48%

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

4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	8,894	1.12%
All Emissions	40,048	5.05%
All Visual	16,821	2.12%
All Functional	59,195	7.46%
OBDII	40,477	5.10%
Overall	91,861	11.58%

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	173,484	296	137,895	63
Non-Directed	233,743	36,812	213,431	33,481
Total	407,227	37,108	351,326	33,544

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	60,866	892	48,052	101
Non-Directed	131,153	148,468	117,869	135,363
Total	192,019	149,360	165,921	135,464

7. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	633,155	76,881	12.14%	7,151	1.13%
Partially Enhanced	40,377	4,825	11.95%	523	1.30%
Basic	70,166	5,953	8.48%	675	0.96%
Change of Ownership	5,226	660	12.63%	131	2.51%
No Program	7	1	14.29%	1	14.29%
Unknown Program	44,250	3,541	8.00%	413	0.93%
Total Program Area	793,181	91,861	11.58%	8,894	1.12%

8. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
STAR Test Only	407,227	54,297	13.33%	5,275	1.30%
Non-STAR Test Only	37,108	3,191	8.60%	276	0.74%
STAR Test and Repair	192,019	23,499	12.24%	2,352	1.22%
Non-STAR Test and Repair	149,360	10,243	6.86%	915	0.61%
Basic Area Dealer	3,439	103	3.00%	9	0.26%
Business Fleet	4	0	0.00%	0	0.00%
Permanent Fleet Registered	80	4	5.00%	0	0.00%
Referee	367	146	39.78%	27	7.36%
Government Fleet	2,079	183	8.80%	17	0.82%
Unknown Privilege	1,498	195	13.02%	23	1.54%
Total	793,181	91,861	11.58%	8,894	1.12%

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	1,870	78	38	0	0	1,986
STAR Regular Test and Repair CAP Basic	0	0	93	0	0	93
STAR Regular Test and Repair COO	0	0	1	66	0	67
STAR Test Only	1,841	27	17	0	0	1,885
Non-STAR Regular Test and Repair	2,218	242	474	37	0	2,971
Non-STAR Test Only	555	13	11	0	0	579
Repair Only	73	2	3	0	0	78
Basic Area Dealer	0	0	80	0	0	80
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	6,879	372	764	106	0	8,121

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-1955	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1960	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1973	1	1	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%
MY-1976	600	178	29.67%	20.50%	8.50%	14.67%	9.83%	0.00%
MY-1977	816	267	32.72%	19.85%	8.46%	18.38%	11.64%	0.00%
MY-1978	903	264	29.24%	19.49%	8.08%	17.72%	11.30%	0.00%
MY-1979	1,065	360	33.80%	24.32%	10.14%	18.59%	10.23%	0.00%
MY-1980	645	196	30.39%	20.62%	10.08%	15.81%	10.08%	0.00%
MY-1981	679	220	32.40%	24.15%	10.01%	17.38%	10.46%	0.00%
MY-1982	844	315	37.32%	25.83%	10.19%	20.14%	12.20%	0.00%
MY-1983	985	324	32.89%	24.87%	10.15%	15.74%	9.54%	0.00%
MY-1984	1,888	646	34.22%	25.32%	10.22%	17.48%	10.17%	0.00%
MY-1985	2,397	816	34.04%	24.57%	8.64%	16.81%	9.43%	0.00%
MY-1986	3,648	1,205	33.03%	24.31%	8.77%	16.67%	8.28%	0.00%
MY-1987	4,409	1,442	32.71%	24.09%	8.14%	16.63%	7.53%	0.00%
MY-1988	4,864	1,598	32.85%	23.89%	6.99%	16.86%	8.37%	0.00%
MY-1989	6,999	2,170	31.00%	22.25%	6.20%	15.66%	6.86%	0.00%
MY-1990	8,455	2,501	29.58%	21.85%	6.21%	14.29%	6.16%	0.00%
MY-1991	10,927	3,199	29.28%	20.93%	5.75%	14.31%	5.58%	0.00%
MY-1992	10,583	3,043	28.75%	20.95%	5.23%	13.29%	5.39%	0.00%
MY-1993	14,100	4,375	31.03%	23.44%	4.99%	13.89%	5.85%	0.00%
MY-1994	17,271	4,870	28.20%	20.28%	3.87%	12.95%	5.51%	0.00%
MY-1995	24,460	6,233	25.48%	18.21%	3.18%	10.48%	4.81%	0.00%
MY-1996	19,509	4,451	22.82%	11.54%	1.73%	13.48%	4.17%	11.46%
MY-1997	33,777	6,376	18.88%	8.86%	1.34%	11.53%	3.21%	10.04%
MY-1998	30,386	5,037	16.58%	6.53%	1.02%	10.76%	3.02%	9.55%
MY-1999	47,762	6,004	12.57%	3.93%	0.65%	8.90%	2.36%	8.02%
MY-2000	42,150	5,109	12.12%	3.44%	0.69%	8.84%	2.27%	8.33%
MY-2001	70,456	8,478	12.03%	2.02%	0.38%	10.04%	1.77%	9.71%
MY-2002	42,175	4,323	10.25%	1.82%	0.32%	8.30%	1.72%	8.05%
MY-2003	80,463	6,316	7.85%	1.12%	0.23%	6.46%	1.27%	6.26%
MY-2004	40,793	2,543	6.23%	0.97%	0.19%	5.13%	1.01%	4.96%
MY-2005	85,467	4,164	4.87%	0.53%	0.11%	4.07%	0.68%	3.96%
MY-2006	37,755	1,364	3.61%	0.61%	0.08%	2.88%	0.60%	2.79%
MY-2007	90,106	2,608	2.89%	0.28%	0.05%	2.47%	0.35%	2.41%

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-2008	22,804	392	1.72%	0.43%	0.06%	1.39%	0.24%	1.34%
MY-2009	8,166	151	1.85%	0.67%	0.09%	1.57%	0.15%	1.56%
MY-2010	5,647	83	1.47%	0.32%	0.07%	1.20%	0.21%	1.17%
MY-2011	5,904	85	1.44%	0.59%	0.05%	1.15%	0.17%	1.12%
MY-2012	7,074	63	0.89%	0.31%	0.00%	0.72%	0.04%	0.71%
MY-2013	5,628	75	1.33%	0.16%	0.02%	1.14%	0.11%	1.10%
MY-2014	618	16	2.59%	0.16%	0.00%	2.43%	0.00%	2.43%
All Model Years	793,181	91,861	11.58%	5.05%	1.12%	7.46%	2.12%	5.10%

11. Referee Activity

	Certificates Issued
Certificate of Compliance	391
Certificate of Non Compliance	0
Parts Cost	61
Hardship Extensions	0
Exempt Vehicle	26
Exempted by Directive	2
Parts Exemption	8
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	488

12. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,102
Stations Locked-Out at Least Once	955
Stations Conducted at Least One Test	7,019

13. Active Technicians

License Type	Technician Count	Daily Average
EA (Test and Repair Enhanced)	2,776	1,579
EB (Test and Repair Basic)	125	0
EI (Repair Only)	2	0
EO (Test and Repair)	6,629	3,862
EO (Test Only)	1,254	771

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	142,288	46.86	43,836	46.60	186,124	46.80
STAR Test Only	337,311	47.95	60,492	49.32	397,803	48.16
Non-STAR Test and Repair	81,618	49.56	61,582	46.75	143,200	48.35
Non-STAR Test Only	26,771	42.86	8,592	38.92	35,363	41.90
Test and Repair Dealer	1	69.00	3,143	54.71	3,144	54.71
Total	587,989	47.68	177,645	47.35	765,634	47.60

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	2,289	23.62	9,902	309.35
	\$51-150	1,876	100.72		
	\$151-250	1,433	201.85		
	\$251-450	2,116	341.68		
	Over \$450	2,188	826.30		
Non-STAR Repairs (Test and Repair)	\$1-50	1,068	22.88	4,113	263.62
	\$51-150	966	103.50		
	\$151-250	650	201.76		
	\$251-450	796	339.44		
	Over \$450	633	882.32		
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	53	26.08	740	384.82
	\$51-150	93	103.69		
	\$151-250	85	195.36		
	\$251-450	197	360.03		

Repair Station Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
	Over \$450	312	596.84		
Total Repairs	\$1-50	3,410	23.43	14,755	300.39
	\$51-150	2,935	101.73		
	\$151-250	2,168	201.57		
	\$251-450	3,109	342.27		
	Over \$450	3,133	814.76		

16. CAP Repair Costs

CAP Repairs	Total Vehicles	Average Repair Cost
	764	365.21

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	61	4	1	1	2	1	2	1
Acceleration Simulation Mode (ASM)	Basic	STAR Test and Repair	36	6	0	0	5	2	5	0
Acceleration Simulation Mode (ASM)	Basic	STAR Test Only	44	11	0	0	5	5	6	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Non-STAR Test and Repair	11	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	44	3	2	23	16	26	2
Acceleration Simulation Mode (ASM)	Enhanced	Non-STAR Test and Repair	53,418	3,665	233	280	2,007	1,263	2,589	570
Acceleration Simulation Mode (ASM)	Enhanced	Non-STAR Test Only	20,386	2,039	161	214	1,057	751	1,474	376
Acceleration Simulation Mode (ASM)	Enhanced	Permanent Fleet Registered	12	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Referee	108	99	15	45	28	47	61	56
Acceleration Simulation Mode (ASM)	Enhanced	STAR Test and Repair	110,245	17,698	1,691	1,591	7,441	8,123	10,938	3,275
Acceleration Simulation Mode (ASM)	Enhanced	STAR Test Only	272,177	46,789	4,544	4,129	18,640	22,191	28,944	8,865
Acceleration Simulation Mode (ASM)	Enhanced	Unknown Privilege	1,093	173	20	30	47	116	79	39
Acceleration Simulation Mode (ASM)	No Program	STAR Test Only	0	1	1	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Partial	Non-STAR Test and Repair	12,597	1,701	180	93	729	840	1,021	190
Acceleration Simulation Mode (ASM)	Partial	Non-STAR Test Only	2,484	344	34	40	144	154	216	66

	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	Referee	5	4	1	2	1	2	2	3
Acceleration Simulation Mode (ASM)	Partial	STAR Test and Repair	6,572	1,141	128	82	506	529	727	193
Acceleration Simulation Mode (ASM)	Partial	STAR Test Only	7,169	1,227	144	70	539	579	745	174
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	101	10	0	23	74	29	0
Acceleration Simulation Mode (ASM)	Unknown Program	Non-STAR Test and Repair	8,279	479	51	42	258	187	325	73
Acceleration Simulation Mode (ASM)	Unknown Program	Non-STAR Test Only	1,709	158	14	28	61	77	100	39
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	12	13	5	5	3	8	10	9
Acceleration Simulation Mode (ASM)	Unknown Program	STAR Test and Repair	5,267	637	72	52	318	290	408	117
Acceleration Simulation Mode (ASM)	Unknown Program	STAR Test Only	9,850	1,284	165	130	599	603	839	302
Acceleration Simulation Mode (ASM)	Unknown Program	Unknown Privilege	23	5	1	0	1	4	2	1
Two Speed Idle (TSI)	Basic	Basic Area Dealer	2,234	76	8	1	42	17	58	5
Two Speed Idle (TSI)	Basic	Government Fleet	0	9	0	0	6	1	8	0
Two Speed Idle (TSI)	Basic	Non-STAR Test and Repair	35,730	3,074	334	183	1,457	848	2,242	424
Two Speed Idle (TSI)	Basic	Non-STAR Test Only	3,278	309	33	29	151	71	214	67
Two Speed Idle (TSI)	Basic	Referee	12	10	2	6	1	3	7	8
Two Speed Idle (TSI)	Basic	STAR Test and Repair	13,289	1,613	207	113	747	477	1,148	288
Two Speed Idle (TSI)	Basic	STAR Test Only	5,484	726	90	59	354	189	528	136
Two Speed Idle (TSI)	Basic	Unknown Privilege	14	3	0	1	1	1	1	1
Two Speed Idle (TSI)	Change of Ownership	Non-STAR Test and Repair	1,813	211	37	12	97	83	148	26
Two Speed Idle (TSI)	Change of Ownership	Non-STAR Test Only	127	10	5	1	1	9	6	2
Two Speed Idle (TSI)	Change of Ownership	Referee	0	3	1	2	0	1	2	3
Two Speed Idle (TSI)	Change of Ownership	STAR Test and Repair	1,636	302	60	22	122	117	196	48
Two Speed Idle (TSI)	Change of Ownership	STAR Test Only	679	118	28	15	40	52	74	26
Two Speed Idle (TSI)	Enhanced	Basic Area Dealer	249	13	0	2	8	1	10	2
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	21	2	0	9	10	11	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	12,678	560	39	34	393	97	453	77
Two Speed Idle (TSI)	Enhanced	Non-STAR Test Only	3,875	237	23	29	142	44	183	41
Two Speed Idle (TSI)	Enhanced	Referee	24	8	3	2	1	4	4	4
Two Speed Idle (TSI)	Enhanced	STAR Test and Repair	20,658	1,556	142	127	978	283	1,214	268
Two Speed Idle (TSI)	Enhanced	STAR Test Only	45,496	3,529	273	273	2,349	574	2,811	580
Two Speed Idle (TSI)	Enhanced	Unknown Privilege	121	9	2	2	2	3	4	2
Two Speed Idle (TSI)	Partial	Non-STAR Test and Repair	1,918	131	15	10	85	27	104	17
Two Speed Idle (TSI)	Partial	Non-STAR Test Only	322	22	4	1	10	10	16	3
Two Speed Idle (TSI)	Partial	STAR Test and Repair	1,120	93	11	7	54	23	66	18
Two Speed Idle (TSI)	Partial	STAR Test Only	1,123	101	6	8	71	17	77	19
Two Speed Idle (TSI)	Unknown Program	Basic Area Dealer	423	7	1	0	5	1	6	0
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	6	2	0	2	3	3	0
Two Speed Idle (TSI)	Unknown Program	Non-STAR Test and Repair	4,188	258	25	27	146	60	201	43
Two Speed Idle (TSI)	Unknown Program	Non-STAR Test Only	520	22	2	2	8	9	12	6
Two Speed Idle (TSI)	Unknown Program	STAR Test and Repair	3,198	268	41	24	134	86	193	50
Two Speed Idle (TSI)	Unknown Program	STAR Test Only	3,363	246	24	33	163	49	181	50
UnKnown TestType	Basic	Basic Area Dealer	222	5	0	0	4	19	4	1
UnKnown TestType	Basic	Government Fleet	0	0	0	0	0	4	0	0
UnKnown TestType	Basic	Non-STAR Test and Repair	1,618	53	0	8	36	73	36	18
UnKnown TestType	Basic	Non-STAR Test Only	113	5	0	0	5	5	5	0
UnKnown TestType	Basic	Referee	1	1	0	1	0	1	0	1
UnKnown TestType	Basic	STAR Test and Repair	601	34	0	4	18	41	18	16
UnKnown TestType	Basic	STAR Test Only	245	13	0	3	8	15	8	6
UnKnown TestType	Change of Ownership	Non-STAR Test and Repair	88	4	0	0	2	5	2	2
UnKnown TestType	Change of Ownership	STAR Test and Repair	98	8	0	2	5	8	5	3
UnKnown TestType	Change of Ownership	STAR Test Only	28	1	0	0	1	1	1	0
UnKnown TestType	Enhanced	Basic Area Dealer	19	0	0	0	0	2	0	0
UnKnown TestType	Enhanced	Government Fleet	0	1	0	0	1	35	1	0
UnKnown TestType	Enhanced	Non-STAR Test and Repair	1,933	60	0	10	44	106	44	17

	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 Only	582	35	0	4	29	36	29	9
UnKnown TestType	Enhanced	Referee	9	2	0	1	1	2	1	1
UnKnown TestType	Enhanced	STAR Test and Repair	2,472	124	0	15	90	186	90	42
UnKnown TestType	Enhanced	STAR Test Only	4,911	216	0	45	144	255	144	87
UnKnown TestType	Enhanced	Unknown Privilege	19	2	0	0	1	1	1	1
UnKnown TestType	Partial	Government Fleet	0	0	0	0	0	1	0	0
UnKnown TestType	Partial	Non-STAR Test and Repair	692	26	0	4	20	37	20	7
UnKnown TestType	Partial	Non-STAR Test Only	77	5	0	1	4	6	4	2
UnKnown TestType	Partial	STAR Test and Repair	355	11	0	1	7	15	7	4
UnKnown TestType	Partial	STAR Test Only	314	16	0	5	10	16	10	6
UnKnown TestType	Unknown Program	Basic Area Dealer	23	0	0	0	0	1	0	0
UnKnown TestType	Unknown Program	Government Fleet	0	0	0	0	0	6	0	0
UnKnown TestType	Unknown Program	Non-STAR Test and Repair	438	16	0	4	9	47	9	8
UnKnown TestType	Unknown Program	Non-STAR Test Only	57	4	0	1	3	4	3	1
UnKnown TestType	Unknown Program	Referee	21	4	0	4	0	4	0	4
UnKnown TestType	Unknown Program	STAR Test and Repair	369	8	0	2	3	45	3	5
UnKnown TestType	Unknown Program	STAR Test Only	435	19	0	8	8	36	8	13