

Executive Summary Report

SMOG CHECK Statewide

October 2013

1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	884,563	106,026	11.99%
Total	1,013,774	135,256	13.34%

2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	766,987	86.71%	117,576	13.29%
Total	864,300	85.26%	149,474	14.74%

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	382,499	85.73%	63,664	14.27%
Non-STAR Test Only	40,950	89.99%	4,554	10.01%
STAR Test and Repair	180,086	85.87%	29,630	14.13%
Non-STAR Test and Repair	157,688	90.62%	16,326	9.38%
Total	761,223	86.06%	123,340	13.94%

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

4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	10,537	1.19%
All Emissions	47,086	5.32%
All Visual	19,657	2.22%
All Functional	67,688	7.65%
OBDII	45,574	5.15%
Overall	106,026	11.99%

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	190,720	416	150,063	110
Non-Directed	255,443	45,088	232,436	40,840
Total	446,163	45,504	382,499	40,950

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	66,510	1,183	51,762	138
Non-Directed	143,206	172,831	128,324	157,550
Total	209,716	174,014	180,086	157,688

7. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	698,065	88,345	12.66%	8,527	1.22%
Partially Enhanced	46,059	5,721	12.42%	549	1.19%
Basic	81,406	6,985	8.58%	837	1.03%
Change of Ownership	6,002	819	13.65%	165	2.75%
No Program	4	1	25.00%	1	25.00%
Unknown Program	53,027	4,155	7.84%	458	0.86%
Total Program Area	884,563	106,026	11.99%	10,537	1.19%

8. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
STAR Test Only	446,163	62,029	13.90%	6,249	1.40%
Non-STAR Test Only	45,504	4,143	9.10%	341	0.75%
STAR Test and Repair	209,716	26,837	12.80%	2,705	1.29%
Non-STAR Test and Repair	174,014	12,246	7.04%	1,158	0.67%
Basic Area Dealer	4,148	111	2.68%	8	0.19%
Business Fleet	28	0	0.00%	0	0.00%
Permanent Fleet Registered	86	4	4.65%	0	0.00%
Referee	495	225	45.45%	33	6.67%
Government Fleet	2,704	191	7.06%	16	0.59%
Unknown Privilege	1,687	240	14.23%	27	1.60%
Total	884,563	106,026	11.99%	10,537	1.19%

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	1,812	77	35	0	0	1,924
STAR Regular Test and Repair CAP Basic	0	0	93	0	0	93
STAR Regular Test and Repair COO	21	0	2	65	0	88
STAR Test Only	1,829	27	16	0	0	1,872
Non-STAR Regular Test and Repair	2,245	243	481	38	0	3,007
Non-STAR Test Only	593	15	12	0	0	620
Repair Only	72	2	3	0	0	77
Basic Area Dealer	0	0	82	0	0	82
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	6,894	374	771	106	0	8,145

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-0	2	1	50.00%	0.00%	0.00%	50.00%	0.00%	0.00%
MY-1960	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1976	673	238	35.36%	23.92%	9.06%	19.47%	14.12%	0.00%
MY-1977	961	317	32.99%	21.33%	8.43%	18.42%	11.97%	0.00%
MY-1978	1,141	351	30.76%	20.25%	7.54%	17.70%	10.34%	0.00%
MY-1979	1,314	429	32.65%	21.39%	8.37%	18.57%	11.11%	0.00%
MY-1980	764	246	32.20%	20.94%	11.65%	19.24%	11.26%	0.00%
MY-1981	810	303	37.41%	28.27%	11.98%	21.98%	12.84%	0.00%
MY-1982	912	296	32.46%	22.92%	10.86%	18.09%	10.53%	0.00%
MY-1983	1,113	405	36.39%	26.77%	9.16%	19.77%	11.50%	0.00%
MY-1984	2,235	808	36.15%	26.98%	11.19%	18.57%	10.74%	0.00%
MY-1985	2,960	1,055	35.64%	26.52%	10.03%	18.48%	9.36%	0.00%
MY-1986	4,254	1,437	33.78%	24.21%	9.45%	18.24%	9.45%	0.00%
MY-1987	5,034	1,697	33.71%	25.21%	8.42%	16.25%	8.07%	0.00%
MY-1988	5,767	1,856	32.18%	23.39%	7.61%	16.40%	7.39%	0.00%
MY-1989	8,343	2,547	30.53%	22.08%	6.78%	15.33%	6.57%	0.00%
MY-1990	9,505	2,876	30.26%	21.64%	6.22%	15.27%	6.56%	0.00%
MY-1991	12,994	3,852	29.64%	21.29%	5.63%	14.63%	5.92%	0.00%
MY-1992	12,432	3,715	29.88%	21.61%	5.82%	13.84%	5.86%	0.00%
MY-1993	16,994	5,282	31.08%	23.84%	4.86%	13.19%	5.57%	0.00%
MY-1994	19,742	5,551	28.12%	20.28%	3.82%	12.63%	5.36%	0.00%
MY-1995	29,489	7,475	25.35%	18.03%	3.09%	10.72%	4.82%	0.00%
MY-1996	21,317	4,979	23.36%	12.10%	1.90%	13.61%	4.32%	11.63%
MY-1997	39,787	7,530	18.93%	8.78%	1.28%	11.48%	3.18%	9.98%
MY-1998	33,555	5,881	17.53%	7.18%	1.13%	11.31%	3.16%	9.99%
MY-1999	54,430	6,784	12.46%	4.03%	0.65%	8.68%	2.46%	7.83%
MY-2000	42,094	5,508	13.09%	3.64%	0.71%	9.53%	2.53%	8.98%
MY-2001	87,844	10,217	11.63%	1.90%	0.37%	9.61%	1.74%	9.33%
MY-2002	40,564	4,587	11.31%	2.10%	0.34%	9.13%	1.95%	8.89%
MY-2003	97,780	7,453	7.62%	1.10%	0.22%	6.27%	1.21%	6.13%
MY-2004	35,878	2,520	7.02%	1.23%	0.24%	5.69%	1.19%	5.52%
MY-2005	98,891	4,586	4.64%	0.50%	0.10%	3.86%	0.65%	3.78%
MY-2006	31,793	1,311	4.12%	0.86%	0.09%	3.31%	0.62%	3.24%
MY-2007	110,478	3,085	2.79%	0.26%	0.04%	2.35%	0.36%	2.28%
MY-2008	15,471	325	2.10%	0.76%	0.06%	1.69%	0.31%	1.63%

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	9,379	160	1.71%	0.47%	0.04%	1.39%	0.21%	1.36%
MY-2010	6,201	89	1.44%	0.31%	0.05%	1.14%	0.16%	1.10%
MY-2011	6,835	90	1.32%	0.45%	0.06%	1.07%	0.13%	1.05%
MY-2012	8,499	96	1.13%	0.29%	0.01%	0.95%	0.07%	0.95%
MY-2013	5,861	81	1.38%	0.17%	0.02%	1.18%	0.14%	1.11%
MY-2014	465	7	1.51%	0.22%	0.00%	1.51%	0.00%	1.51%
MY-2015	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
All Model Years	884,563	106,026	11.99%	5.32%	1.19%	7.65%	2.22%	5.15%

11. Referee Activity

	Certificates Issued
Certificate of Compliance	501
Certificate of Non Compliance	0
Parts Cost	79
Hardship Extensions	0
Exempt Vehicle	25
Exempted by Directive	3
Parts Exemption	11
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	619

12. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,081
Stations Locked-Out at Least Once	1,011
Stations Conducted at Least One Test	7,064

13. Active Technicians

License Type	Technician Count	Daily Average
EA (Test and Repair Enhanced)	3,312	1,922
EB (Test and Repair Basic)	153	0
EI (Repair Only)	0	0
EO (Test and Repair)	6,347	3,805
EO (Test Only)	1,174	740

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	155,958	46.94	47,845	47.08	203,803	46.97
STAR Test Only	371,760	47.66	64,585	48.95	436,345	47.85
Non-STAR Test and Repair	94,660	49.97	72,101	46.40	166,761	48.43
Non-STAR Test Only	32,677	43.13	10,386	40.72	43,063	42.55
Test and Repair Dealer	14	69.36	3,853	55.54	3,867	55.59
Total	655,069	47.60	198,770	47.27	853,839	47.52

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	2,599	23.52	11,807	315.16
	\$51-150	2,148	100.60		
	\$151-250	1,771	202.03		
	\$251-450	2,591	343.58		
	Over \$450	2,698	813.88		
Non-STAR Repairs (Test and Repair)	\$1-50	1,272	22.57	5,167	270.91
	\$51-150	1,189	101.30		
	\$151-250	847	199.59		
	\$251-450	1,001	337.59		
	Over \$450	858	866.71		
Repair Only	\$1-50	0	0.00	1	384.00
	\$51-150	0	0.00		
	\$151-250	0	0.00		
	\$251-450	1	384.00		
	Over \$450	0	0.00		
CAP Repairs	\$1-50	71	24.07	937	392.95
	\$51-150	96	106.52		
	\$151-250	120	201.22		
	\$251-450	230	356.06		

Repair Station Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
	Over \$450	420	595.77		
Total Repairs	\$1-50	3,942	23.22	17,912	306.47
	\$51-150	3,433	101.01		
	\$151-250	2,738	201.24		
	\$251-450	3,823	342.77		
	Over \$450	3,976	802.24		

16. CAP Repair Costs

CAP Repairs	Total Vehicles	Average Repair Cost
	967	378.91

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	76	10	1	0	3	8	4	1
Acceleration Simulation Mode (ASM)	Basic	Referee	1	2	0	2	0	1	1	2
Acceleration Simulation Mode (ASM)	Basic	STAR Test and Repair	39	5	2	0	2	4	3	0
Acceleration Simulation Mode (ASM)	Basic	STAR Test Only	59	11	1	0	4	6	8	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Non-STAR Test Only	0	1	1	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Change of Ownership	STAR Test and Repair	11	3	0	0	1	1	2	0
Acceleration Simulation Mode (ASM)	Change of Ownership	STAR Test Only	10	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	53	1	0	34	19	34	1
Acceleration Simulation Mode (ASM)	Enhanced	Non-STAR Test and Repair	61,525	4,364	330	365	2,298	1,581	3,015	721
Acceleration Simulation Mode (ASM)	Enhanced	Non-STAR Test Only	24,816	2,559	202	253	1,334	894	1,830	528
Acceleration Simulation Mode (ASM)	Enhanced	Referee	146	147	21	53	31	69	74	75
Acceleration Simulation Mode (ASM)	Enhanced	STAR Test and Repair	118,821	20,192	1,928	1,856	8,151	9,473	12,374	3,781
Acceleration Simulation Mode (ASM)	Enhanced	STAR Test Only	296,210	53,494	5,449	4,667	20,808	25,881	32,830	10,058
Acceleration Simulation Mode (ASM)	Enhanced	Unknown Privilege	1,188	222	26	33	57	144	117	55
Acceleration Simulation Mode (ASM)	No Program	STAR Test Only	1	1	1	0	0	1	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
Acceleration Simulation Mode (ASM)	Partial	Basic Area Dealer	9	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Non-STAR Test and Repair	14,572	2,089	197	129	808	1,079	1,168	252
Acceleration Simulation Mode (ASM)	Partial	Non-STAR Test Only	3,020	470	52	49	178	233	281	86
Acceleration Simulation Mode (ASM)	Partial	Referee	2	8	1	2	1	2	5	4
Acceleration Simulation Mode (ASM)	Partial	STAR Test and Repair	7,340	1,319	141	120	546	644	805	230
Acceleration Simulation Mode (ASM)	Partial	STAR Test Only	8,088	1,369	124	110	549	675	826	213
Acceleration Simulation Mode (ASM)	Partial	Unknown Privilege	15	3	0	0	1	2	1	0
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	106	12	2	17	86	21	1
Acceleration Simulation Mode (ASM)	Unknown Program	Non-STAR Test and Repair	9,878	562	40	41	292	234	358	83
Acceleration Simulation Mode (ASM)	Unknown Program	Non-STAR Test Only	2,245	221	21	32	114	86	156	47
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	13	15	2	9	3	8	4	11
Acceleration Simulation Mode (ASM)	Unknown Program	STAR Test and Repair	6,326	753	85	77	361	345	489	145
Acceleration Simulation Mode (ASM)	Unknown Program	STAR Test Only	11,939	1,561	186	181	731	689	1,033	362
Acceleration Simulation Mode (ASM)	Unknown Program	Unknown Privilege	36	4	0	1	1	4	2	1
Two Speed Idle (TSI)	Basic	Basic Area Dealer	2,722	91	7	5	56	18	73	11
Two Speed Idle (TSI)	Basic	Non-STAR Test and Repair	42,572	3,649	440	236	1,703	1,058	2,634	536
Two Speed Idle (TSI)	Basic	Non-STAR Test Only	4,056	438	34	36	218	103	304	100
Two Speed Idle (TSI)	Basic	Referee	15	20	6	9	4	9	13	13
Two Speed Idle (TSI)	Basic	STAR Test and Repair	14,326	1,779	238	137	868	483	1,308	310
Two Speed Idle (TSI)	Basic	STAR Test Only	6,081	838	108	89	392	230	599	186
Two Speed Idle (TSI)	Change of Ownership	Basic Area Dealer	26	3	1	0	2	1	2	0
Two Speed Idle (TSI)	Change of Ownership	Non-STAR Test and Repair	2,055	246	54	22	97	99	169	53
Two Speed Idle (TSI)	Change of Ownership	Non-STAR Test Only	132	14	4	2	4	5	9	5

	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	STAR Test and Repair	1,891	361	71	39	147	132	237	70
Two Speed Idle (TSI)	Change of Ownership	STAR Test Only	778	164	34	18	64	61	113	38
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	17	3	0	12	4	13	0
Two Speed Idle (TSI)	Enhanced	Non-STAR Test and Repair	14,195	684	46	53	466	114	542	100
Two Speed Idle (TSI)	Enhanced	Non-STAR Test Only	4,644	335	23	36	215	55	272	55
Two Speed Idle (TSI)	Enhanced	Referee	22	14	3	3	7	4	10	6
Two Speed Idle (TSI)	Enhanced	STAR Test and Repair	22,098	1,840	187	140	1,162	371	1,434	298
Two Speed Idle (TSI)	Enhanced	STAR Test Only	47,711	3,900	307	291	2,538	707	3,019	663
Two Speed Idle (TSI)	Enhanced	Unknown Privilege	142	7	1	0	5	2	6	0
Two Speed Idle (TSI)	Partial	Non-STAR Test and Repair	2,184	154	18	10	87	40	108	26
Two Speed Idle (TSI)	Partial	Non-STAR Test Only	330	21	0	2	11	5	15	3
Two Speed Idle (TSI)	Partial	STAR Test and Repair	1,212	105	8	15	66	18	78	32
Two Speed Idle (TSI)	Partial	STAR Test Only	1,110	104	8	8	66	24	76	15
Two Speed Idle (TSI)	Unknown Program	Basic Area Dealer	569	6	0	0	3	1	5	0
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	5	0	0	4	1	4	0
Two Speed Idle (TSI)	Unknown Program	Non-STAR Test and Repair	5,034	284	32	31	165	64	214	52
Two Speed Idle (TSI)	Unknown Program	Non-STAR Test Only	698	43	4	4	24	13	30	6
Two Speed Idle (TSI)	Unknown Program	STAR Test and Repair	3,756	286	45	22	155	84	217	44
Two Speed Idle (TSI)	Unknown Program	STAR Test Only	4,044	243	31	43	140	52	170	64
UnKnown TestType	Basic	Basic Area Dealer	219	6	0	2	3	8	3	3
UnKnown TestType	Basic	Government Fleet	0	0	0	0	0	1	0	0
UnKnown TestType	Basic	Non-STAR Test and Repair	1,989	75	0	10	52	103	52	24
UnKnown TestType	Basic	Non-STAR Test Only	121	12	0	2	8	14	8	5
UnKnown TestType	Basic	STAR Test and Repair	652	24	0	5	15	29	15	11
UnKnown TestType	Basic	STAR Test Only	263	15	0	0	13	16	13	2
UnKnown TestType	Change of Ownership	Non-STAR Test and Repair	76	3	0	2	0	3	0	3
UnKnown TestType	Change of Ownership	STAR Test and Repair	100	11	0	6	5	11	5	8
UnKnown TestType	Change of Ownership	STAR Test Only	34	7	0	4	4	7	4	4
UnKnown TestType	Enhanced	Basic Area Dealer	24	0	0	0	0	1	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	Government Fleet	0	2	0	0	2	55	2	0
UnKnown TestType	Enhanced	Non-STAR Test and Repair	2,161	87	0	16	64	134	64	28
UnKnown TestType	Enhanced	Non-STAR Test Only	663	21	0	8	13	25	13	10
UnKnown TestType	Enhanced	Referee	10	5	0	3	2	5	2	4
UnKnown TestType	Enhanced	STAR Test and Repair	2,686	119	0	14	93	190	93	36
UnKnown TestType	Enhanced	STAR Test Only	5,338	277	0	58	186	301	186	110
UnKnown TestType	Enhanced	Unknown Privilege	31	2	0	1	1	2	1	1
UnKnown TestType	Partial	Government Fleet	0	0	0	0	0	1	0	0
UnKnown TestType	Partial	Non-STAR Test and Repair	844	25	0	1	20	28	20	6
UnKnown TestType	Partial	Non-STAR Test Only	109	6	0	2	4	6	4	2
UnKnown TestType	Partial	STAR Test and Repair	423	20	0	2	15	25	15	5
UnKnown TestType	Partial	STAR Test Only	338	26	0	7	17	26	17	12
UnKnown TestType	Unknown Program	Basic Area Dealer	17	0	0	0	0	1	0	0
UnKnown TestType	Unknown Program	Government Fleet	0	0	0	0	0	16	0	0
UnKnown TestType	Unknown Program	Non-STAR Test and Repair	517	14	0	5	7	28	7	8
UnKnown TestType	Unknown Program	Non-STAR Test Only	91	1	0	0	1	2	1	0
UnKnown TestType	Unknown Program	Referee	20	2	0	2	0	2	0	2
UnKnown TestType	Unknown Program	STAR Test and Repair	405	20	0	3	12	83	12	9
UnKnown TestType	Unknown Program	STAR Test Only	494	18	0	2	10	33	10	9