

Executive Summary Report

SMOG CHECK Statewide

February 2013

1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	928,108	119,620	12.89%
Total	1,063,137	151,147	14.22%

2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	798,002	85.98%	130,106	14.02%
Total	897,681	84.44%	165,456	15.56%

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	357,867	84.39%	66,181	15.61%
Non-STAR Test Only	105,622	87.70%	14,807	12.30%
STAR Test and Repair	121,749	84.35%	22,581	15.65%
Non-STAR Test and Repair	208,004	90.23%	22,518	9.77%
Total	793,242	85.47%	134,866	14.53%

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

4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	11,655	1.26%
All Emissions	52,580	5.67%
All Visual	21,299	2.29%
All Functional	77,414	8.34%
OBDII	51,984	5.60%
Overall	119,620	12.89%

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	193,993	14,433	148,686	10,253
Non-Directed	230,055	105,996	209,181	95,369
Total	424,048	120,429	357,867	105,622

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	51,592	4,016	38,870	1,862
Non-Directed	92,738	226,506	82,879	206,142
Total	144,330	230,522	121,749	208,004

7. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	740,116	100,440	13.57%	9,554	1.29%
Partially Enhanced	49,617	6,287	12.67%	612	1.23%
Basic	85,526	7,907	9.25%	895	1.05%
Change of Ownership	5,942	822	13.83%	132	2.22%
No Program	3	0	0.00%	0	0.00%
Unknown Program	46,904	4,164	8.88%	462	0.98%
Total Program Area	928,108	119,620	12.89%	11,655	1.26%

8. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
STAR Test Only	424,048	65,105	15.35%	6,409	1.51%
Non-STAR Test Only	120,429	13,954	11.59%	1,402	1.16%
STAR Test and Repair	144,330	21,496	14.89%	2,041	1.41%
Non-STAR Test and Repair	230,522	18,435	8.00%	1,729	0.75%
Basic Area Dealer	4,620	140	3.03%	8	0.17%
Business Fleet	3	0	0.00%	0	0.00%
Permanent Fleet Registered	83	10	12.05%	0	0.00%
Referee	476	206	43.28%	31	6.51%
Government Fleet	3,597	274	7.62%	35	0.97%
Unknown Privilege	0	0	0.00%		0.00%
Total	928,108	119,620	12.89%	11,655	1.26%

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	1,206	50	35	0	0	1,291
STAR Regular Test and Repair CAP Basic	0	0	58	0	0	58
STAR Regular Test and Repair COO	6	1	0	50	0	57
STAR Test Only	1,472	19	11	0	0	1,502
Non-STAR Regular Test and Repair	2,792	266	511	57	0	3,626
Non-STAR Test Only	1,078	31	16	0	0	1,125
Repair Only	34	0	2	0	0	36
Basic Area Dealer	1	0	91	0	0	92
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	2	0	0	0	0	2
Total	6,907	377	771	110	0	8,165

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	742	242	32.61%	20.75%	8.89%	18.73%	11.32%	0.00%
MY-1977	1,005	353	35.12%	20.00%	9.15%	22.29%	12.64%	0.00%
MY-1978	1,153	409	35.47%	22.90%	8.07%	19.60%	10.67%	0.00%
MY-1979	1,271	454	35.72%	23.21%	10.07%	21.48%	12.12%	0.00%
MY-1980	764	280	36.65%	22.25%	10.47%	23.17%	15.05%	0.00%
MY-1981	842	309	36.70%	26.60%	11.16%	21.26%	11.28%	0.00%
MY-1982	979	377	38.51%	27.07%	10.11%	22.47%	12.05%	0.00%
MY-1983	1,244	464	37.30%	27.49%	9.49%	19.77%	12.70%	0.00%
MY-1984	2,279	889	39.01%	29.84%	12.15%	20.89%	12.07%	0.00%
MY-1985	3,084	1,169	37.91%	27.33%	10.21%	20.59%	10.21%	0.00%
MY-1986	4,308	1,546	35.89%	26.04%	9.73%	19.45%	9.66%	0.00%
MY-1987	5,128	1,824	35.57%	25.66%	8.25%	18.31%	8.25%	0.00%
MY-1988	6,244	2,122	33.98%	25.51%	8.26%	16.80%	7.83%	0.00%
MY-1989	8,627	2,941	34.09%	23.40%	6.75%	18.33%	8.24%	0.00%
MY-1990	11,275	3,697	32.79%	24.18%	6.51%	16.26%	6.74%	0.00%
MY-1991	13,032	4,126	31.66%	22.66%	6.10%	16.38%	6.30%	0.00%
MY-1992	14,097	4,457	31.62%	23.31%	5.84%	14.73%	5.92%	0.00%
MY-1993	16,908	5,607	33.16%	25.11%	5.59%	14.91%	5.70%	0.00%
MY-1994	22,066	6,646	30.12%	21.59%	3.95%	13.17%	5.89%	0.00%
MY-1995	30,616	8,320	27.18%	19.32%	3.23%	11.42%	4.81%	0.00%
MY-1996	25,217	6,241	24.75%	12.41%	1.83%	14.97%	4.40%	12.89%
MY-1997	42,552	8,579	20.16%	9.47%	1.44%	12.34%	3.27%	10.65%
MY-1998	38,618	6,978	18.07%	7.30%	1.18%	11.84%	2.97%	10.63%
MY-1999	61,095	8,078	13.22%	4.19%	0.61%	9.35%	2.26%	8.47%
MY-2000	48,370	6,864	14.19%	3.63%	0.68%	10.72%	2.43%	10.12%
MY-2001	85,526	10,122	11.83%	1.75%	0.36%	10.01%	1.69%	9.70%
MY-2002	46,112	5,773	12.52%	2.00%	0.39%	10.47%	1.94%	10.23%
MY-2003	96,534	7,355	7.62%	1.01%	0.20%	6.34%	1.19%	6.21%
MY-2004	42,874	3,404	7.94%	1.03%	0.22%	6.76%	1.09%	6.63%
MY-2005	105,082	4,572	4.35%	0.44%	0.08%	3.63%	0.62%	3.56%
MY-2006	38,901	1,876	4.82%	0.60%	0.11%	4.01%	0.69%	3.96%
MY-2007	107,792	2,802	2.60%	0.19%	0.05%	2.19%	0.35%	2.14%
MY-2008	13,529	268	1.98%	0.56%	0.07%	1.57%	0.29%	1.53%
MY-2009	9,544	185	1.94%	0.36%	0.04%	1.66%	0.13%	1.58%
MY-2010	5,735	96	1.67%	0.23%	0.00%	1.43%	0.17%	1.39%

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	6,893	79	1.15%	0.32%	0.06%	0.91%	0.13%	0.90%
MY-2012	6,691	89	1.33%	0.16%	0.01%	1.17%	0.12%	1.09%
MY-2013	1,374	27	1.97%	0.44%	0.00%	1.53%	0.44%	1.46%
MY-2014	3	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-2015	2	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
All Model Years	928,108	119,620	12.89%	5.67%	1.26%	8.34%	2.29%	5.60%

11. Referee Activity

	Certificates Issued
Certificate of Compliance	478
Certificate of Non Compliance	0
Parts Cost	106
Hardship Extensions	0
Exempt Vehicle	39
Exempted by Directive	6
Parts Exemption	10
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	639

12. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,191
Stations Locked-Out at Least Once	1,357
Stations Conducted at Least One Test	6,974

13. Active Technicians

License Type	Technician Count	Daily Average
EA (Test and Repair Enhanced)	6,946	4,307
EB (Test and Repair Basic)	317	0
EI (Repair Only)	2	0
EO (Test and Repair)	3,138	1,933
EO (Test Only)	363	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	109,938	46.88	30,786	46.39	140,724	46.78
STAR Test Only	360,743	48.60	53,674	50.08	414,417	48.79
Non-STAR Test and Repair	135,283	48.18	85,288	45.91	220,571	47.30
Non-STAR Test Only	94,420	44.26	21,632	44.55	116,052	44.31
Test and Repair Dealer	6	71.83	4,337	52.93	4,343	52.96
Total	700,390	47.66	195,717	47.13	896,107	47.55

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	1,994	23.91	8,937	313.41
	\$51-150	1,663	99.42		
	\$151-250	1,276	203.51		
	\$251-450	1,962	344.01		
	Over \$450	2,042	809.65		
Non-STAR Repairs (Test and Repair)	\$1-50	1,959	22.85	7,781	260.58
	\$51-150	1,727	100.01		
	\$151-250	1,312	201.86		
	\$251-450	1,557	335.45		
	Over \$450	1,226	834.41		
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	38	24.74	766	363.63
	\$51-150	117	96.02		
	\$151-250	74	207.54		
	\$251-450	216	358.09		
	Over \$450	321	540.99		
Total Repairs	\$1-50	3,991	23.40	17,484	292.10

Repair Station Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
	\$51-150	3,507	99.60		
	\$151-250	2,662	202.81		
	\$251-450	3,735	341.26		
	Over \$450	3,589	794.08		

16. CAP Repair Costs

	Total Vehicles	Average Repair Cost
CAP Repairs	841	352.17

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	86	11	2	0	4	6	5	0
Acceleration Simulation Mode (ASM)	Basic	Non-STAR Test Only	37	7	2	0	3	4	4	0
Acceleration Simulation Mode (ASM)	Basic	STAR Test and Repair	64	6	0	0	3	4	3	1
Acceleration Simulation Mode (ASM)	Basic	STAR Test Only	81	10	1	0	4	5	7	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Non-STAR Test and Repair	11	2	0	1	0	2	0	1
Acceleration Simulation Mode (ASM)	Change of Ownership	STAR Test Only	19	3	0	0	1	2	1	0
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	57	2	0	34	17	40	1
Acceleration Simulation Mode (ASM)	Enhanced	Non-STAR Test and Repair	93,640	7,995	628	747	4,424	2,765	5,687	1,433
Acceleration Simulation Mode (ASM)	Enhanced	Non-STAR Test Only	73,783	10,610	1,045	1,121	4,770	4,603	7,371	2,129
Acceleration Simulation Mode (ASM)	Enhanced	Referee	147	132	24	52	31	69	75	73
Acceleration Simulation Mode (ASM)	Enhanced	STAR Test and Repair	82,784	16,693	1,549	1,527	6,786	7,646	10,488	3,134
Acceleration Simulation Mode (ASM)	Enhanced	STAR Test Only	287,356	57,578	5,733	4,732	22,260	28,249	35,028	10,100
Acceleration Simulation Mode (ASM)	Partial	Non-STAR Test and Repair	18,406	2,695	256	162	1,152	1,383	1,611	298
Acceleration Simulation Mode (ASM)	Partial	Non-STAR Test Only	5,176	816	94	66	311	418	500	130
Acceleration Simulation Mode (ASM)	Partial	Referee	8	11	1	6	0	6	5	9
Acceleration Simulation Mode (ASM)	Partial	STAR Test and Repair	5,496	1,015	90	71	426	469	628	179

	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	STAR Test Only	7,374	1,318	131	94	560	616	794	202
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	192	31	0	28	157	42	1
Acceleration Simulation Mode (ASM)	Unknown Program	Non-STAR Test and Repair	10,963	783	85	65	407	329	524	119
Acceleration Simulation Mode (ASM)	Unknown Program	Non-STAR Test Only	4,289	600	66	69	288	273	409	149
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	14	13	2	5	6	8	9	10
Acceleration Simulation Mode (ASM)	Unknown Program	STAR Test and Repair	3,283	453	49	41	219	190	311	95
Acceleration Simulation Mode (ASM)	Unknown Program	STAR Test Only	8,472	1,242	131	115	592	543	794	234
Two Speed Idle (TSI)	Basic	Basic Area Dealer	3,284	121	7	5	76	24	98	12
Two Speed Idle (TSI)	Basic	Non-STAR Test and Repair	49,039	4,751	537	296	2,335	1,261	3,543	679
Two Speed Idle (TSI)	Basic	Non-STAR Test Only	5,658	651	83	57	286	196	468	108
Two Speed Idle (TSI)	Basic	Referee	14	15	3	9	2	4	5	14
Two Speed Idle (TSI)	Basic	STAR Test and Repair	10,331	1,471	165	118	710	381	1,079	298
Two Speed Idle (TSI)	Basic	STAR Test Only	4,984	741	95	73	335	237	530	145
Two Speed Idle (TSI)	Change of Ownership	Non-STAR Test and Repair	2,636	399	66	26	183	137	304	56
Two Speed Idle (TSI)	Change of Ownership	Non-STAR Test Only	350	65	5	11	23	23	46	13
Two Speed Idle (TSI)	Change of Ownership	STAR Test and Repair	1,256	233	46	18	76	88	161	44
Two Speed Idle (TSI)	Change of Ownership	STAR Test Only	541	108	15	12	40	28	81	24
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	13	2	0	7	2	11	0
Two Speed Idle (TSI)	Enhanced	Non-STAR Test and Repair	19,429	1,036	98	86	666	204	804	150
Two Speed Idle (TSI)	Enhanced	Non-STAR Test Only	12,400	952	93	106	589	207	739	165
Two Speed Idle (TSI)	Enhanced	Referee	34	17	1	6	10	5	12	7
Two Speed Idle (TSI)	Enhanced	STAR Test and Repair	13,237	1,252	110	92	770	239	964	206
Two Speed Idle (TSI)	Enhanced	STAR Test Only	40,797	3,629	269	296	2,373	613	2,855	578
Two Speed Idle (TSI)	Partial	Basic Area Dealer	39	1	0	0	0	1	0	0
Two Speed Idle (TSI)	Partial	Non-STAR Test and Repair	2,357	175	17	18	113	36	133	27
Two Speed Idle (TSI)	Partial	Non-STAR Test Only	553	40	2	2	25	7	30	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)	Partial	STAR Test and Repair	795	72	6	4	47	11	59	13
Two Speed Idle (TSI)	Partial	STAR Test Only	923	79	15	3	48	24	56	12
Two Speed Idle (TSI)	Unknown Program	Basic Area Dealer	459	7	1	1	4	1	5	2
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	5	0	0	3	1	4	0
Two Speed Idle (TSI)	Unknown Program	Non-STAR Test and Repair	5,116	362	40	25	218	85	277	53
Two Speed Idle (TSI)	Unknown Program	Non-STAR Test Only	1,251	107	12	24	62	22	80	34
Two Speed Idle (TSI)	Unknown Program	STAR Test and Repair	1,983	185	26	17	100	53	132	42
Two Speed Idle (TSI)	Unknown Program	STAR Test Only	2,490	163	19	20	107	36	128	28
UnKnown TestType	Basic	Basic Area Dealer	225	4	0	0	3	6	3	1
UnKnown TestType	Basic	Government Fleet	0	0	0	0	0	5	0	0
UnKnown TestType	Basic	Non-STAR Test and Repair	2,024	64	0	8	48	76	48	18
UnKnown TestType	Basic	Non-STAR Test Only	154	12	0	2	7	12	7	6
UnKnown TestType	Basic	Referee	2	1	0	0	0	1	0	1
UnKnown TestType	Basic	STAR Test and Repair	400	23	0	4	14	24	14	9
UnKnown TestType	Basic	STAR Test Only	202	12	0	3	6	13	6	7
UnKnown TestType	Change of Ownership	Non-STAR Test and Repair	116	5	0	1	2	5	2	3
UnKnown TestType	Change of Ownership	STAR Test and Repair	58	5	0	1	3	5	3	3
UnKnown TestType	Enhanced	Basic Area Dealer	12	1	0	0	0	1	0	1
UnKnown TestType	Enhanced	Government Fleet	0	2	0	0	2	33	2	0
UnKnown TestType	Enhanced	Non-STAR Test and Repair	2,760	112	0	15	80	150	80	38
UnKnown TestType	Enhanced	Non-STAR Test Only	1,639	82	0	21	57	86	57	30
UnKnown TestType	Enhanced	Referee	14	4	0	4	2	4	3	4
UnKnown TestType	Enhanced	STAR Test and Repair	1,563	68	0	11	47	87	47	22
UnKnown TestType	Enhanced	STAR Test Only	4,060	197	0	40	120	210	120	84
UnKnown TestType	Partial	Government Fleet	0	0	0	0	0	1	0	0
UnKnown TestType	Partial	Non-STAR Test and Repair	882	29	0	8	18	38	18	12
UnKnown TestType	Partial	Non-STAR Test Only	157	6	0	1	5	6	5	1
UnKnown TestType	Partial	Referee	2	1	0	1	0	1	0	1
UnKnown TestType	Partial	STAR Test and Repair	306	15	0	7	9	15	9	7

	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	Partial	STAR Test Only	269	14	0	2	9	14	9	5
UnKnown TestType	Unknown Program	Government Fleet	0	0	0	0	0	9	0	0
UnKnown TestType	Unknown Program	Non-STAR Test and Repair	539	16	0	6	7	39	7	9
UnKnown TestType	Unknown Program	Non-STAR Test Only	153	6	0	3	2	9	2	4
UnKnown TestType	Unknown Program	Referee	20	6	0	6	0	6	0	6
UnKnown TestType	Unknown Program	STAR Test and Repair	190	4	0	2	0	13	0	4
UnKnown TestType	Unknown Program	STAR Test Only	276	11	0	3	7	21	7	5