

Executive Summary Report

SMOG CHECK Statewide

August 2013

1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	1,007,935	117,998	11.71%
Total	1,148,143	150,642	13.12%

2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	882,399	87.55%	125,536	12.45%
Total	987,115	85.97%	161,028	14.03%

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	443,089	86.11%	71,476	13.89%
Non-STAR Test Only	49,449	90.25%	5,345	9.75%
STAR Test and Repair	197,855	87.23%	28,974	12.77%
Non-STAR Test and Repair	185,564	91.56%	17,104	8.44%
Total	875,957	86.91%	131,978	13.09%

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

4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	12,109	1.20%
All Emissions	53,449	5.30%
All Visual	21,734	2.16%
All Functional	74,433	7.38%
OBDII	49,524	4.91%
Overall	117,998	11.71%

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	217,745	532	170,986	126
Non-Directed	296,820	54,262	272,103	49,323
Total	514,565	54,794	443,089	49,449

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	71,663	1,366	56,195	181
Non-Directed	155,166	201,302	141,660	185,383
Total	226,829	202,668	197,855	185,564

7. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	804,608	99,167	12.32%	9,927	1.23%
Partially Enhanced	51,485	6,179	12.00%	657	1.28%
Basic	91,021	7,488	8.23%	855	0.94%
Change of Ownership	6,177	780	12.63%	134	2.17%
No Program	1	0	0.00%	0	0.00%
Unknown Program	54,643	4,384	8.02%	536	0.98%
Total Program Area	1,007,935	117,998	11.71%	12,109	1.20%

8. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
STAR Test Only	514,565	70,404	13.68%	7,354	1.43%
Non-STAR Test Only	54,794	4,980	9.09%	468	0.85%
STAR Test and Repair	226,829	27,844	12.28%	2,834	1.25%
Non-STAR Test and Repair	202,668	13,993	6.90%	1,363	0.67%
Basic Area Dealer	4,500	125	2.78%	6	0.13%
Business Fleet	7	0	0.00%	0	0.00%
Permanent Fleet Registered	110	9	8.18%	1	0.91%
Referee	426	198	46.48%	29	6.81%
Government Fleet	1,969	157	7.97%	16	0.81%
Unknown Privilege	2,015	287	14.24%	38	1.89%
Total	1,007,935	117,998	11.71%	12,109	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	1,737	74	28	0	0	1,839
STAR Regular Test and Repair CAP Basic	0	0	94	0	0	94
STAR Regular Test and Repair COO	12	0	1	64	0	77
STAR Test Only	1,795	28	14	0	0	1,837
Non-STAR Regular Test and Repair	2,328	244	489	41	0	3,102
Non-STAR Test Only	691	16	17	0	0	724
Repair Only	68	3	3	0	0	74
Basic Area Dealer	0	0	83	0	0	83
Business Fleet	2	0	0	0	0	2
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	8	0	0	0	0	8
Total	6,953	375	776	108	0	8,212

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-1960	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1971	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1974	1	1	100.00%	100.00%	100.00%	100.00%	100.00%	0.00%
MY-1976	830	280	33.73%	20.48%	7.47%	18.92%	11.45%	0.00%
MY-1977	1,129	359	31.80%	20.11%	8.77%	18.25%	10.54%	0.00%
MY-1978	1,255	420	33.47%	20.88%	9.00%	18.73%	12.11%	0.00%
MY-1979	1,408	467	33.17%	23.15%	9.87%	19.03%	10.72%	0.00%
MY-1980	773	242	31.31%	19.15%	9.06%	18.24%	10.09%	0.00%
MY-1981	909	345	37.95%	26.62%	11.77%	21.34%	13.64%	0.00%
MY-1982	997	347	34.80%	26.28%	11.03%	18.15%	12.54%	0.00%
MY-1983	1,463	530	36.23%	27.00%	10.18%	17.70%	11.00%	0.00%
MY-1984	2,410	910	37.76%	28.26%	11.37%	19.17%	11.74%	0.00%
MY-1985	3,268	1,132	34.64%	26.16%	10.01%	18.42%	9.49%	0.00%
MY-1986	4,990	1,675	33.57%	24.95%	9.92%	17.88%	8.94%	0.00%
MY-1987	5,295	1,938	36.60%	27.10%	9.39%	18.15%	8.86%	0.00%
MY-1988	6,737	2,227	33.06%	24.37%	8.03%	16.58%	7.42%	0.00%
MY-1989	9,171	2,877	31.37%	22.52%	6.46%	15.94%	7.26%	0.00%
MY-1990	11,272	3,445	30.56%	22.40%	6.36%	14.80%	6.40%	0.00%
MY-1991	13,716	4,159	30.32%	22.35%	5.90%	14.60%	5.88%	0.00%
MY-1992	14,330	4,234	29.55%	21.67%	5.42%	13.59%	5.71%	0.00%
MY-1993	18,277	5,766	31.55%	23.90%	5.02%	13.80%	5.70%	0.00%
MY-1994	20,886	6,145	29.42%	21.24%	4.26%	13.02%	5.49%	0.00%
MY-1995	32,227	8,272	25.67%	18.29%	3.22%	10.94%	4.80%	0.00%
MY-1996	25,168	5,806	23.07%	12.13%	1.91%	13.48%	4.04%	11.49%
MY-1997	44,748	8,487	18.97%	9.09%	1.41%	11.37%	3.24%	9.72%
MY-1998	38,126	6,677	17.51%	7.42%	1.24%	11.18%	3.06%	9.95%
MY-1999	62,438	7,761	12.43%	4.16%	0.71%	8.57%	2.24%	7.70%
MY-2000	47,265	6,101	12.91%	3.78%	0.72%	9.28%	2.49%	8.69%
MY-2001	95,842	10,642	11.10%	1.79%	0.29%	9.13%	1.66%	8.82%
MY-2002	44,471	5,043	11.34%	2.06%	0.40%	9.15%	1.98%	8.89%
MY-2003	117,589	8,243	7.01%	1.02%	0.23%	5.72%	1.12%	5.56%
MY-2004	39,508	2,692	6.81%	1.22%	0.23%	5.45%	1.15%	5.30%
MY-2005	123,927	5,367	4.33%	0.48%	0.08%	3.57%	0.61%	3.48%
MY-2006	34,388	1,426	4.15%	0.87%	0.09%	3.16%	0.72%	3.10%
MY-2007	130,216	3,170	2.43%	0.27%	0.04%	1.97%	0.33%	1.93%

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	15,868	331	2.09%	0.53%	0.02%	1.61%	0.27%	1.58%
MY-2009	10,401	175	1.68%	0.31%	0.04%	1.42%	0.13%	1.38%
MY-2010	6,480	79	1.22%	0.35%	0.03%	0.97%	0.08%	0.90%
MY-2011	7,714	94	1.22%	0.39%	0.01%	0.97%	0.14%	0.95%
MY-2012	8,203	92	1.12%	0.34%	0.04%	0.89%	0.06%	0.87%
MY-2013	4,006	39	0.97%	0.20%	0.00%	0.75%	0.20%	0.72%
MY-2014	230	2	0.87%	0.00%	0.00%	0.87%	0.00%	0.87%
MY-2015	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
All Model Years	1,007,935	117,998	11.71%	5.30%	1.20%	7.38%	2.16%	4.91%

11. Referee Activity

	Certificates Issued
Certificate of Compliance	459
Certificate of Non Compliance	0
Parts Cost	90
Hardship Extensions	0
Exempt Vehicle	25
Exempted by Directive	4
Parts Exemption	7
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	585

12. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,168
Stations Locked-Out at Least Once	959
Stations Conducted at Least One Test	7,044

13. Active Technicians

License Type	Technician Count	Daily Average
EA (Test and Repair Enhanced)	4,257	2,529
EB (Test and Repair Basic)	181	0
EI (Repair Only)	1	0
EO (Test and Repair)	5,633	3,380
EO (Test Only)	960	593

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	170,954	46.92	49,539	46.59	220,493	46.85
STAR Test Only	432,260	48.09	70,910	49.53	503,170	48.30
Non-STAR Test and Repair	113,959	49.11	80,713	45.95	194,672	47.80
Non-STAR Test Only	39,591	41.88	12,402	39.79	51,993	41.38
Test and Repair Dealer	9	59.44	4,198	56.74	4,207	56.74
Total	756,773	47.66	217,762	47.12	974,535	47.54

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	2,718	23.78	12,092	310.23
	\$51-150	2,209	99.18		
	\$151-250	1,765	202.94		
	\$251-450	2,624	342.72		
	Over \$450	2,776	796.15		
Non-STAR Repairs (Test and Repair)	\$1-50	1,519	22.37	5,868	266.43
	\$51-150	1,327	100.08		
	\$151-250	952	200.91		
	\$251-450	1,154	336.90		
	Over \$450	916	891.47		
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	51	21.14	693	356.83
	\$51-150	103	100.77		
	\$151-250	83	205.72		

Repair Station Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
	\$251-450	187	348.32		
	Over \$450	269	571.06		
Total Repairs	\$1-50	4,288	23.25	18,653	298.18
	\$51-150	3,639	99.55		
	\$151-250	2,800	202.33		
	\$251-450	3,965	341.29		
	Over \$450	3,961	802.91		

16. CAP Repair Costs

	Total Vehicles	Average Repair Cost
CAP Repairs	740	344.35

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	68	8	2	2	3	4	5	2
Acceleration Simulation Mode (ASM)	Basic	Non-STAR Test Only	28	5	1	1	1	3	1	1
Acceleration Simulation Mode (ASM)	Basic	STAR Test and Repair	43	8	1	0	3	6	5	0
Acceleration Simulation Mode (ASM)	Basic	STAR Test Only	62	7	4	1	0	7	1	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Non-STAR Test Only	3	2	1	0	0	2	2	1
Acceleration Simulation Mode (ASM)	Change of Ownership	STAR Test Only	6	4	0	0	2	2	2	0
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	37	1	0	21	12	25	0
Acceleration Simulation Mode (ASM)	Enhanced	Non-STAR Test and Repair	77,000	5,376	457	465	2,831	2,010	3,693	866
Acceleration Simulation Mode (ASM)	Enhanced	Non-STAR Test Only	30,743	3,258	282	336	1,645	1,216	2,295	662
Acceleration Simulation Mode (ASM)	Enhanced	Referee	108	134	19	61	31	72	76	81
Acceleration Simulation Mode (ASM)	Enhanced	STAR Test and Repair	133,237	21,057	2,047	1,896	8,431	9,937	12,798	3,995
Acceleration Simulation Mode (ASM)	Enhanced	STAR Test Only	347,873	61,374	6,470	5,370	23,114	30,551	36,994	11,460
Acceleration Simulation Mode (ASM)	Enhanced	Unknown Privilege	1,403	255	37	24	72	164	125	52
Acceleration Simulation Mode (ASM)	Partial	Non-STAR Test and Repair	16,974	2,277	218	126	858	1,209	1,290	252
Acceleration Simulation Mode (ASM)	Partial	Non-STAR Test Only	3,231	447	43	39	165	226	265	82

	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	7	9	2	1	2	4	5	4
Acceleration Simulation Mode (ASM)	Partial	STAR Test and Repair	8,442	1,456	183	110	591	709	870	226
Acceleration Simulation Mode (ASM)	Partial	STAR Test Only	9,005	1,521	159	141	583	739	910	268
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	104	15	1	22	74	32	3
Acceleration Simulation Mode (ASM)	Unknown Program	Non-STAR Test and Repair	10,439	665	67	47	345	271	437	112
Acceleration Simulation Mode (ASM)	Unknown Program	Non-STAR Test Only	2,450	262	30	30	134	112	172	49
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	20	12	3	5	4	6	10	7
Acceleration Simulation Mode (ASM)	Unknown Program	Repair Only	14	1	0	1	0	1	1	1
Acceleration Simulation Mode (ASM)	Unknown Program	STAR Test and Repair	6,289	731	89	69	325	345	456	132
Acceleration Simulation Mode (ASM)	Unknown Program	STAR Test Only	12,883	1,645	202	186	736	779	1,025	371
Acceleration Simulation Mode (ASM)	Unknown Program	Unknown Privilege	39	7	1	0	0	5	3	1
Two Speed Idle (TSI)	Basic	Basic Area Dealer	3,003	105	6	3	57	21	82	12
Two Speed Idle (TSI)	Basic	Non-STAR Test and Repair	48,622	4,061	467	235	1,954	1,134	2,950	597
Two Speed Idle (TSI)	Basic	Non-STAR Test Only	4,830	460	51	25	221	125	333	71
Two Speed Idle (TSI)	Basic	Referee	13	15	3	6	4	5	10	10
Two Speed Idle (TSI)	Basic	STAR Test and Repair	15,719	1,862	211	140	874	501	1,369	360
Two Speed Idle (TSI)	Basic	STAR Test Only	6,677	839	109	84	393	222	599	170
Two Speed Idle (TSI)	Basic	Unknown Privilege	30	4	0	1	2	1	4	1
Two Speed Idle (TSI)	Change of Ownership	Non-STAR Test and Repair	2,300	265	38	13	130	85	204	40
Two Speed Idle (TSI)	Change of Ownership	Non-STAR Test Only	180	21	3	2	9	4	16	5
Two Speed Idle (TSI)	Change of Ownership	STAR Test and Repair	1,746	321	70	21	132	121	225	51
Two Speed Idle (TSI)	Change of Ownership	STAR Test Only	814	151	22	11	58	47	106	27
Two Speed Idle (TSI)	Enhanced	Basic Area Dealer	402	6	0	0	3	2	4	1
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	6	0	0	5	1	5	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	16,507	721	46	58	492	107	591	100
Two Speed Idle (TSI)	Enhanced	Non-STAR Test Only	5,556	397	44	40	236	76	316	73
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	49	2	1	0	1	1	1	0
Two Speed Idle (TSI)	Enhanced	Referee	26	13	2	4	5	4	10	4
Two Speed Idle (TSI)	Enhanced	STAR Test and Repair	22,985	1,811	173	157	1,108	388	1,390	313
Two Speed Idle (TSI)	Enhanced	STAR Test Only	52,928	4,165	348	350	2,686	756	3,251	713
Two Speed Idle (TSI)	Enhanced	Unknown Privilege	182	15	0	3	7	2	12	4
Two Speed Idle (TSI)	Partial	Non-STAR Test and Repair	2,366	136	16	9	89	33	104	12
Two Speed Idle (TSI)	Partial	Non-STAR Test Only	419	23	4	1	13	7	16	2
Two Speed Idle (TSI)	Partial	STAR Test and Repair	1,260	114	16	6	57	31	81	22
Two Speed Idle (TSI)	Partial	STAR Test Only	1,247	119	16	9	69	34	86	19
Two Speed Idle (TSI)	Unknown Program	Basic Area Dealer	562	9	0	0	6	3	7	0
Two Speed Idle (TSI)	Unknown Program	Non-STAR Test and Repair	5,099	310	52	33	164	93	231	55
Two Speed Idle (TSI)	Unknown Program	Non-STAR Test Only	800	55	9	6	33	15	40	13
Two Speed Idle (TSI)	Unknown Program	STAR Test and Repair	3,705	263	44	31	121	79	181	58
Two Speed Idle (TSI)	Unknown Program	STAR Test Only	4,333	249	24	31	146	65	174	51
Two Speed Idle (TSI)	Unknown Program	Unknown Privilege	12	2	0	0	1	1	2	0
Unknown TestType	Basic	Basic Area Dealer	234	3	0	0	1	4	1	2
Unknown TestType	Basic	Government Fleet	0	0	0	0	0	4	0	0
Unknown TestType	Basic	Non-STAR Test and Repair	2,193	62	0	10	47	80	47	18
Unknown TestType	Basic	Non-STAR Test Only	162	4	0	1	4	4	4	1
Unknown TestType	Basic	STAR Test and Repair	687	32	0	6	21	32	21	12
Unknown TestType	Basic	STAR Test Only	344	10	0	3	3	10	3	7
Unknown TestType	Change of Ownership	Non-STAR Test and Repair	99	5	0	1	3	5	3	2
Unknown TestType	Change of Ownership	Referee	0	1	0	1	1	1	1	1
Unknown TestType	Change of Ownership	STAR Test and Repair	85	5	0	2	3	5	3	3
Unknown TestType	Enhanced	Basic Area Dealer	21	1	0	1	0	1	0	1
Unknown TestType	Enhanced	Government Fleet	0	0	0	0	0	26	0	0
Unknown TestType	Enhanced	Non-STAR Test and Repair	2,547	68	0	5	51	93	51	19

	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	829	42	0	6	28	56	28	15
UnKnown TestType	Enhanced	Referee	13	4	0	0	1	4	2	0
UnKnown TestType	Enhanced	STAR Test and Repair	2,826	142	0	26	97	162	97	56
UnKnown TestType	Enhanced	STAR Test Only	5,969	278	0	52	175	306	175	119
UnKnown TestType	Enhanced	Unknown Privilege	36	2	0	1	1	1	1	1
UnKnown TestType	Partial	Non-STAR Test and Repair	860	28	0	3	20	45	20	9
UnKnown TestType	Partial	Non-STAR Test Only	124	2	0	0	1	2	1	1
UnKnown TestType	Partial	STAR Test and Repair	436	24	0	6	12	26	12	12
UnKnown TestType	Partial	STAR Test Only	377	21	0	6	12	21	12	9
UnKnown TestType	Unknown Program	Basic Area Dealer	16	1	0	0	1	1	1	0
UnKnown TestType	Unknown Program	Government Fleet	0	1	0	0	1	12	1	0
UnKnown TestType	Unknown Program	Non-STAR Test and Repair	475	9	0	1	7	45	7	2
UnKnown TestType	Unknown Program	Non-STAR Test Only	88	2	0	0	0	4	0	2
UnKnown TestType	Unknown Program	Referee	15	6	0	6	0	6	0	6
UnKnown TestType	Unknown Program	STAR Test and Repair	389	16	0	4	8	22	8	8
UnKnown TestType	Unknown Program	STAR Test Only	530	21	0	6	12	41	12	11