

Executive Summary Report

SMOG CHECK Statewide

October 2007

1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	744,941	93,309	12.53%
Total	880,009	125,916	14.31%

2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	634,923	85.23%	110,018	14.77%
Total	731,196	83.09%	148,813	16.91%

2a. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	382,138	85.81%	63,194	14.19%
Total	442,857	84.45%	81,518	15.55%

3. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	16,145	2.17%
All Emissions	51,993	6.98%
All Visual	10,602	1.42%
All Functional	28,310	3.80%
OBDII	29,181	3.92%
Overall	93,309	12.53%

4. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	587,041	75,043	12.78%	12,733	2.17%
Partially Enhanced	36,585	5,257	14.37%	911	2.49%
Basic	69,769	7,854	11.26%	1,622	2.32%
Change of Ownership	5,650	793	14.04%	203	3.59%
No Program	6	1	16.67%	1	16.67%
Unknown Program	45,890	4,361	9.50%	675	1.47%
Total Program Area	744,941	93,309	12.53%	16,145	2.17%

5. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	445,332	61,087	13.72%	11,230	2.52%
Regular	243,102	24,146	9.93%	3,501	1.44%
Basic Area Dealer	4,889	257	5.26%	38	0.78%
Gold Shield in Enhanced Area	37,071	5,683	15.33%	896	2.42%
Gold Shield in Basic Area	6,608	1,022	15.47%	237	3.59%
Gold Shield in COO Area	4,449	560	12.59%	159	3.57%
Business Fleet	18	0	0.00%	0	0.00%
Permanent Fleet Registered	44	6	13.64%	1	2.27%
Referee	670	327	48.81%	65	9.70%
Government Fleet	2,755	221	8.02%	18	0.65%
Unknown Privilege	3	0	0.00%	0	0.00%
Total	744,941	93,309	12.53%	16,145	2.17%

5.a. Initial Tests at Test-Only Stations

	Initial Tests	Certificates Issued
Volunteers	208,731	184,486
Directed Vehicles	236,601	197,652
Total	445,332	382,138

5.b. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	37,659	31,701
Directed Vehicles	10,469	8,238
Total	48,128	39,939

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6. 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-1965	1	1	100.00%	100.00%	0.00%	0.00%	100.00%	0.00%
MY-1968	1	1	100.00%	100.00%	100.00%	100.00%	100.00%	0.00%
MY-1973	2	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1974	3	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1975	9	3	33.33%	0.00%	0.00%	33.33%	22.22%	0.00%
MY-1976	1,142	295	25.83%	19.26%	10.60%	14.10%	8.06%	0.00%
MY-1977	2,026	504	24.88%	18.07%	8.44%	13.82%	7.75%	0.00%
MY-1978	2,230	543	24.35%	18.70%	9.69%	12.51%	7.58%	0.00%
MY-1979	2,719	693	25.49%	19.64%	9.75%	12.80%	7.98%	0.00%
MY-1980	1,540	434	28.18%	22.34%	12.47%	14.94%	7.92%	0.00%
MY-1981	1,853	512	27.63%	22.61%	10.74%	14.41%	7.39%	0.00%
MY-1982	2,279	640	28.08%	22.73%	10.00%	13.12%	7.42%	0.00%
MY-1983	2,739	823	30.05%	24.32%	10.88%	15.48%	8.58%	0.00%
MY-1984	5,611	1,625	28.96%	24.02%	11.73%	13.94%	6.70%	0.00%
MY-1985	7,605	2,131	28.02%	23.25%	11.18%	14.73%	6.23%	0.00%
MY-1986	10,943	2,783	25.43%	20.15%	9.11%	13.10%	4.95%	0.00%
MY-1987	13,227	3,507	26.51%	21.71%	8.74%	12.91%	4.69%	0.00%
MY-1988	15,584	3,622	23.24%	18.56%	7.25%	11.38%	3.91%	0.00%
MY-1989	21,238	4,490	21.14%	16.32%	6.05%	10.50%	3.23%	0.00%
MY-1990	23,265	4,373	18.80%	14.96%	5.18%	8.85%	2.46%	0.00%
MY-1991	28,844	5,041	17.48%	13.50%	4.27%	8.27%	1.98%	0.00%
MY-1992	26,774	4,383	16.37%	12.62%	4.05%	7.33%	1.73%	0.00%
MY-1993	34,751	6,168	17.75%	14.38%	3.39%	6.70%	1.81%	0.00%
MY-1994	36,556	5,396	14.76%	11.34%	2.53%	5.84%	1.76%	0.00%
MY-1995	55,457	6,755	12.18%	8.80%	1.82%	4.94%	1.42%	0.00%
MY-1996	32,522	5,766	17.73%	6.68%	1.06%	1.77%	1.24%	12.14%
MY-1997	64,025	7,946	12.41%	4.13%	0.72%	1.09%	0.79%	8.60%
MY-1998	41,229	4,885	11.85%	3.50%	0.72%	0.97%	0.72%	8.68%
MY-1999	80,687	6,055	7.50%	1.59%	0.31%	0.57%	0.48%	5.64%
MY-2000	36,090	2,962	8.21%	1.50%	0.33%	0.68%	0.46%	6.56%
MY-2001	128,922	8,567	6.65%	0.65%	0.17%	0.62%	0.32%	5.71%
MY-2002	18,399	888	4.83%	0.61%	0.14%	0.39%	0.26%	3.78%
MY-2003	19,705	732	3.71%	0.40%	0.10%	0.32%	0.21%	2.85%
MY-2004	8,796	310	3.52%	0.24%	0.03%	0.20%	0.19%	2.72%
MY-2005	6,341	185	2.92%	0.19%	0.06%	0.17%	0.13%	2.22%
MY-2006	5,931	153	2.58%	0.20%	0.08%	0.10%	0.35%	2.11%
MY-2007	5,454	129	2.37%	0.18%	0.07%	0.29%	0.29%	1.78%
MY-2008	441	8	1.81%	0.45%	0.00%	0.00%	0.45%	1.13%
All Model Years	744,941	93,309	12.53%	6.98%	2.17%	3.80%	1.42%	3.92%

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7. Referee Activity

	Certificates Issued
Certificate of Compliance	559
Certificate of Non Compliance	3
Parts Cost	78
Hardship Extensions	157
Exempt Vehicle	20
Exempted by Directive	95
Parts Exemption	3
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	915

8. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,254
Stations Locked-Out at Least Once	187
Stations Conducted at Least One Test	7,666

9. Active Technicians

		Technician Count	Daily Average
EA	Both Endorsement	10,352	5,844
EA	Gas Endorsement	15	0
EB	Both Endorsement	56	0
EB	Gas Endorsement	538	0
GU	Both Endorsement	20	0

10. Inspection Costs

	ASM Initial Test Count	Avg ASM Inspection Cost	TSI Initial Test Count	Avg TSI Inspection Cost	Total Initial Tests	Overall Average Inspection Cost
Test Only	394,903	48.31	42,014	48.77	436,917	48.36
Test and Repair	163,259	46.53	78,152	44.33	241,411	45.82
Test and Repair Dealer	20	52.00	4,869	46.64	4,889	46.66
Referee	355	30.00	147	30.00	502	30.00
Gold Shield in Enhanced Area	28,181	47.28	8,640	43.44	36,821	46.38
Gold Shield in Basic Area	0	0.00	6,608	33.01	6,608	33.01
Gold Shield in COO Area	111	58.58	4,286	48.16	4,397	48.43

11. Repair Costs

Repair Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
Regular Repairs	\$0-50	7,394	22.40	24,275	206.18
	\$51-150	6,230	100.99		
	\$151-250	3,918	199.66		
	\$251-450	3,996	334.19		
	Over \$450	2,737	764.53		
CAP Repairs	\$0-50	178	27.38	4,000	344.82
	\$51-150	439	105.29		
	\$151-250	619	203.60		
	\$251-450	1,520	348.74		
	Over \$450	1,244	540.23		
Total Repairs	\$0-50	6,595	22.60	25,456	250.80
	\$51-150	5,163	101.45		
	\$151-250	4,198	200.15		
	\$251-450	5,244	340.13		
	Over \$450	4,256	725.46		

12. CAP Repair Costs

	Total Vehicles	Average Repair Cost
CAP Repairs	4,000	344.82

13. 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	Test and Repair	35	4	1	0	0	3	1	0

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	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	Test Only	28	7	0	0	4	5	0	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Gold Shield in Enhanced Area	1	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Test Only	6	2	0	2	0	1	2	2
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	113	20	2	1	3	12	4	3
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	20,070	3,890	563	225	1,285	2,075	1,180	495
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	110	2	3	48	42	13	3
Acceleration Simulation Mode (ASM)	Enhanced	Permanent Fleet Registered	7	2	0	0	1	1	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Referee	182	212	40	84	43	110	68	112
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	109,852	12,411	1,476	673	5,573	5,445	3,167	1,204
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	321,107	54,091	9,921	3,102	14,420	33,998	17,071	6,033
Acceleration Simulation Mode (ASM)	No Program	Test Only	4	1	1	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	12	4	1	0	0	4	2	0
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	1,977	463	79	28	123	270	129	68
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	1	1	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Referee	7	12	3	9	2	5	6	12
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	16,296	2,966	477	166	784	1,745	938	335
Acceleration Simulation Mode (ASM)	Partial	Test and Repair Dealer	11	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Test Only	8,729	1,517	278	90	424	918	448	201
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in COO Area	5	1	0	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,249	214	34	21	74	110	65	32

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Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	65	8	0	13	50	7	0
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	47	19	3	7	7	8	8	8
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	13,711	1,418	191	98	588	688	335	169
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	12,479	1,656	275	111	634	924	421	195
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	4,605	926	221	55	227	412	367	121
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	179	26	7	1	3	13	12	3
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	3,586	634	120	48	188	247	270	108
Two Speed Idle (TSI)	Basic	Government Fleet	0	11	3	0	4	6	1	0
Two Speed Idle (TSI)	Basic	Permanent Fleet Registered	0	1	0	0	0	1	0	1
Two Speed Idle (TSI)	Basic	Referee	31	33	10	11	8	16	11	18
Two Speed Idle (TSI)	Basic	Test and Repair	40,153	4,986	987	283	1,475	2,089	1,823	616
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	3,449	204	36	9	69	67	65	25
Two Speed Idle (TSI)	Basic	Test Only	7,304	1,021	237	66	305	460	328	146
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	44	5	1	1	1	2	2	1
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,944	348	105	26	60	206	131	45
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	129	23	9	2	3	15	14	3
Two Speed Idle (TSI)	Change of Ownership	Referee	9	2	1	1	1	1	0	2
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,773	297	66	26	62	138	129	51
Two Speed Idle (TSI)	Change of Ownership	Test and Repair Dealer	42	2	0	0	1	1	0	0
Two Speed Idle (TSI)	Change of Ownership	Test Only	763	110	21	11	33	49	33	18
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	361	36	4	3	15	13	10	3
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	404	29	7	1	15	9	3	3
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	2,924	372	77	28	161	125	105	56
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	28	3	0	10	14	3	1
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	20	3	1	1	0	1	1	2
Two Speed Idle (TSI)	Enhanced	Referee	33	19	2	12	3	5	2	13

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	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	Test and Repair	18,646	1,379	181	60	763	352	285	116
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	354	27	2	1	15	4	4	3
Two Speed Idle (TSI)	Enhanced	Test Only	27,904	2,410	452	94	1,204	844	478	185
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	38	5	0	3	2	2	2	3
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	35	7	2	1	4	2	2	2
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	180	23	7	1	7	12	4	2
Two Speed Idle (TSI)	Partial	Government Fleet	0	2	1	0	1	1	0	0
Two Speed Idle (TSI)	Partial	Test and Repair	1,706	187	48	10	69	78	59	24
Two Speed Idle (TSI)	Partial	Test Only	764	66	14	7	25	29	17	11
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	371	50	11	6	19	15	23	10
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	1,110	125	35	12	36	62	44	18
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	594	62	7	5	26	20	23	7
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	4	0	1	1	1	0	2
Two Speed Idle (TSI)	Unknown Program	Referee	35	17	6	2	1	12	4	13
Two Speed Idle (TSI)	Unknown Program	Test and Repair	5,824	498	74	31	209	173	139	61
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	538	20	0	2	11	2	8	2
Two Speed Idle (TSI)	Unknown Program	Test Only	3,050	206	31	12	116	64	39	23
UnKnown TestType	Change of Ownership	Referee	1	1	0	0	0	1	0	1
UnKnown TestType	Enhanced	Referee	3	4	0	0	0	4	0	3
UnKnown TestType	Unknown Program	Referee	5	6	0	0	0	6	0	6

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