State of Georgia

Type of Repairs

Repair Slate Position	Repair Type	Abbreviation
1 (YNN.NNN.NNNN)	Ignition System	IGN_SYSTEM
2 (NYN.NNN.NNNN)	Intake/Fuel Induction System	I_F_INDUCT
3 (NNY.NNN.NNNN)	Engine Diagnostics	ENG_DIAG
4 (NNN.YNN.NNNN)	Evaporative System/Fuel Cap	FUEL_EVAP
5 (NNN.NYN.NNNN)	EGR System	EGR
6 (NNN.NNY.NNNN)	Sensors and Switches	SENS_SWITCH
7 (NNN.NNN.YNNN)	ExhaustSystem/Catalyst/Fill Pipe	EXH
8 (NNN.NNN.NYNN)	Air Injection System/Air Pump	AIR_INJ
9 (NNN.NNN.NNYN)	Internal Engine Repairs	ENG_REPAIRS
10 (NNN.NNN.NNNY)	Other Related Repair	OTH_REPAIRS

State of Georgia

Most Common Repair Slates

Reporting Period: 01/01/2015 - 12/31/2015

Repair Slate	Repair Description / Abbreviation	ASM		TSI		OBD	
		#	%	#	%	#	%
NNN.NYN.NNNN	EGR	913	7.0%	1	0.3%	1,341	0.8%
NNN.NNN.YNNN	EXH	1,568	12.0%	5	1.6%	2,747	1.7%
NNN.YNN.NNNN	FUEL_EVAP	705	5.4%	64	20.1%	11,324	7.0%
YNN.NNN.NNNN	IGN_SYSTEM	686	5.3%	27	8.5%	999	0.6%
NYN.NNN.NNNN	I_F_INDUCT	195	1.5%	10	3.1%	975	0.6%
NNN.NNN.NNNN	No Repairs	5,707	43.8%	154	48.4%	122,229	75.9%
NNN.NNN.NNNY	OTH_REPAIR	302	2.3%	5	1.6%	4,188	2.6%
Other Repair Slates	Repair Slates (other than listed)	2,539	19.5%	38	11.9%	10,300	6.4%
NNN.NNY.NNNN	SENS_SWITCH	426	3.3%	14	4.4%	6,955	4.3%
Total Repaired:		**13,041**	**100.0%**	**318**	**100.0%**	**161,058**	**100.0%**
Vehicles Tested Only Once:		**74,288**		**5,438**		**2,297,762**	
All Vehicles:		**87,329**		**5,756**		**2,458,820**	

See Appendix Cover Page for Detailed Explanation of Statistics

State of Georgia

Change in ASM5015 HC Emissions Following Common Repairs

Reporting Period: 01/01/2015 - 12/31/2015

Vehicle Class: Passenger Vehicles (<8500 lbs. GVWR)

Model Year	NNN.NYN.NNNN			NNN.NNN.YNNN			NNN.YNN.NNNN			YNN.NNN.NNNN			NNN.NNN.NNNY			NNN.NNY.NNNN		
	EGR			Exhaust			Fuel/Evap			Ignition System			Other Repairs			Sensor/Switches		
	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)
1991	81	49	63	102	114	41	53	40	5	211	51	53	108	15	57	147	29	49
1992	156	85	53	100	160	36	63	48	3	113	66	57	124	27	61	123	43	60
1993	56	85	54	87	207	38	60	65	3	96	59	63	95	38	48	145	63	53
1994	64	144	48	99	199	40	52	66	3	143	85	52	67	39	53	131	58	58
1995	45	149	52	108	206	41	52	114	1	103	80	55	85	58	46	139	81	61

Vehicle Class: Trucks (<8500 lbs. GVWR)

Model Year	NNN.NYN.NNNN			NNN.NNN.YNNN			NNN.YNN.NNNN			YNN.NNN.NNNN			NNN.NNN.NNNY			NNN.NNY.NNNN		
	EGR			Exhaust			Fuel/Evap			Ignition System			Other Repairs			Sensor/Switches		
	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)
1991	227	41	72	113	48	61	71	38	4	255	36	84	93	10	72	302	16	88
1992	147	46	76	120	81	43	61	40	4	187	45	86	85	13	49	87	12	46
1993	87	63	72	138	105	39	64	85	2	167	73	70	233	26	59	155	39	69
1994	77	118	80	126	186	35	68	104	4	244	92	74	134	35	73	167	37	67
1995	64	158	67	105	282	35	60	118	3	203	105	72	188	45	73	358	46	56

State of Georgia

Change in ASM5015 CO Emissions Following Common Repairs

Reporting Period: 01/01/2015 - 12/31/2015

Vehicle Class: Passenger Vehicles (<8500 lbs. GVWR)

Model Year	NNN.NYN.NNNN			NNN.NNN.YNNN			NNN.YNN.NNNN			YNN.NNN.NNNN			NNN.NNN.NNNY			NNN.NNY.NNNN		
	EGR			Exhaust			Fuel/Evap			Ignition System			Other Repairs			Sensor/Switches		
	Init (%)	#	Final (%)	Init (%)	#	Final (%)	Init (%)	#	Final (%)	Init (%)	#	Final (%)	Init (%)	#	Final (%)	Init (%)	#	Final (%)
1991	0.51	49	0.24	0.53	114	0.1	0.19	40	0.02	0.73	51	0.24	1.8	15	0.17	2.02	29	0.28
1992	0.29	85	0.21	0.6	160	0.07	0.34	48	0.02	0.57	66	0.22	0.44	27	0.23	1.58	43	0.16
1993	0.27	85	0.2	0.51	207	0.08	0.28	65	0.01	0.64	59	0.22	0.69	38	0.18	2.2	63	0.17
1994	0.36	144	0.16	0.47	199	0.09	0.17	66	0.01	0.75	85	0.2	0.34	39	0.19	1.75	58	0.21
1995	0.22	149	0.19	0.53	206	0.09	0.24	114	0.01	0.64	80	0.21	0.87	58	0.15	2.1	81	0.21

Vehicle Class: Trucks (<8500 lbs. GVWR)

Model Year	NNN.NYN.NNNN			NNN.NNN.YNNN			NNN.YNN.NNNN			YNN.NNN.NNNN			NNN.NNN.NNNY			NNN.NNY.NNNN		
	EGR			Exhaust			Fuel/Evap			Ignition System			Other Repairs			Sensor/Switches		
	Init (%)	#	Final (%)	Init (%)	#	Final (%)	Init (%)	#	Final (%)	Init (%)	#	Final (%)	Init (%)	#	Final (%)	Init (%)	#	Final (%)
1991	0.61	41	0.24	0.76	48	0.22	0.21	38	0.02	1.05	36	0.41	0.85	10	0.23	3.04	16	0.24
1992	0.4	46	0.24	0.61	81	0.08	0.2	40	0.01	0.57	45	0.33	0.56	13	0.29	1.48	12	0.18
1993	0.56	63	0.23	0.46	105	0.12	0.21	85	0	0.74	73	0.26	0.9	26	0.19	1.77	39	0.26
1994	0.43	118	0.27	0.47	186	0.07	0.28	104	0.01	0.94	92	0.26	0.67	35	0.3	1.87	37	0.21
1995	0.34	158	0.21	0.51	282	0.08	0.22	118	0.01	0.6	105	0.28	0.9	45	0.29	2.28	46	0.28

State of Georgia

Change in ASM5015 NOx Emissions Following Common Repairs

Reporting Period: 01/01/2015 - 12/31/2015

Vehicle Class: Passenger Vehicles (<8500 lbs. GVWR)

Model Year	NNN.NYN.NNNN			NNN.NNN.YNNN			NNN.YNN.NNNN			YNN.NNN.NNNN			NNN.NNN.NNNY			NNN.NNY.NNNN		
	EGR			Exhaust			Fuel/Evap			Ignition System			Other Repairs			Sensor/Switches		
	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)
1991	1,578	49	574	1,920	114	422	603	40	114	1,248	51	598	1,294	15	557	861	29	497
1992	1,529	85	551	1,735	160	427	619	48	96	1,231	66	599	1,514	27	627	1,102	43	416
1993	1,512	85	578	1,828	207	440	586	65	40	1,342	59	663	1,555	38	628	1,052	63	523
1994	1,466	144	506	1,815	199	378	551	66	63	1,401	85	621	1,371	39	493	1,127	58	475
1995	1,393	149	549	1,770	206	380	481	114	30	1,255	80	581	1,305	58	564	1,012	81	430

Vehicle Class: Trucks (<8500 lbs. GVWR)

Model Year	NNN.NYN.NNNN			NNN.NNN.YNNN			NNN.YNN.NNNN			YNN.NNN.NNNN			NNN.NNN.NNNY			NNN.NNY.NNNN		
	EGR			Exhaust			Fuel/Evap			Ignition System			Other Repairs			Sensor/Switches		
	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)
1991	1,589	41	534	1,787	48	526	527	38	76	1,286	36	474	1,187	10	612	973	16	527
1992	1,541	46	591	1,841	81	498	510	40	20	1,205	45	503	1,230	13	756	968	12	516
1993	1,709	63	603	1,631	105	433	545	85	35	1,088	73	462	1,119	26	555	1,104	39	538
1994	1,729	118	592	1,746	186	446	652	104	31	1,015	92	573	1,435	35	711	1,187	37	452
1995	1,649	158	587	1,701	282	457	580	118	38	1,083	105	537	1,230	45	786	969	46	508

State of Georgia

Change in TSI2500 HC Emissions Following Common Repairs

Reporting Period: 01/01/2015 - 12/31/2015

Vehicle Class: Passenger Vehicles (<8500 lbs. GVWR)

Model Year	NNN.NYN.NNNN			NNN.NNN.YNNN			NNN.YNN.NNNN			YNN.NNN.NNNN			NNN.NNN.NNNY			NNN.NNY.NNNN		
	EGR			Exhaust			Fuel/Evap			Ignition System			Other Repairs			Sensor/Switches		
	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)
1991		0			0		34	1	0		0			0		73	2	69
1992		0		20	1	14	16	2	0	311	5	53	95	1	15	50	1	28
1993		0			0		42	12	0	164	6	46		0		161	5	46
1994		0			0		40	19	0	186	6	86		0		173	4	49
1995		0		153	2	50	35	18	1	109	2	50	234	2	59		0	
2011		0			0			0		24	1	13		0			0	

Vehicle Class: Trucks (<8500 lbs. GVWR)

Model Year	NNN.NYN.NNNN			NNN.NNN.YNNN			NNN.YNN.NNNN			YNN.NNN.NNNN			NNN.NNN.NNNY			NNN.NNY.NNNN		
	EGR			Exhaust			Fuel/Evap			Ignition System			Other Repairs			Sensor/Switches		
	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)	Init (ppm)	#	Final (ppm)
1991		0			0		26	4	0		0			0			0	
1992		0			0		33	1	0		0			0			0	
1993		0			0		41	1	0	95	1	77		0		152	1	52
1994		0		91	1	26	41	2	0	446	2	53		0			0	
1995	146	1	17	41	1	0	39	6	0	61	4	36	207	1	208	143	2	47
2002		0			0			0			0		106	1	17		0	

See Appendix Cover Page for Detailed Explanation of Statistics

State of Georgia

Change in TSI2500 CO Emissions Following Common Repairs

Reporting Period: 01/01/2015 - 12/31/2015

Vehicle Class: Passenger Vehicles (<8500 lbs. GVWR)

Model Year	NNN.NYN.NNNN			NNN.NNN.YNNN			NNN.YNN.NNNN			YNN.NNN.NNNN			NNN.NNN.NNNY			NNN.NNY.NNNN		
	EGR			Exhaust			Fuel/Evap			Ignition System			Other Repairs			Sensor/Switches		
	Init (%)	#	Final (%)	Init (%)	#	Final (%)	Init (%)	#	Final (%)	Init (%)	#	Final (%)	Init (%)	#	Final (%)	Init (%)	#	Final (%)
1991		0			0		0.01	1	0		0			0		0.11	2	0.28
1992		0		0	1	0	0.05	2	0	1.74	5	0.24	3.17	1	0.01	0.71	1	0.06
1993		0			0		0.09	12	0	0.51	6	0.25		0		2.09	5	0.34
1994		0			0		0.16	19	0	1.08	6	0.31		0		4.14	4	0.23
1995		0		0.68	2	0.42	0.36	18	0	1.42	2	0.25	5.03	2	0.49		0	
2011		0			0			0		1	1	0.96		0			0	

Vehicle Class: Trucks (<8500 lbs. GVWR)

Model Year	NNN.NYN.NNNN			NNN.NNN.YNNN			NNN.YNN.NNNN			YNN.NNN.NNNN			NNN.NNN.NNNY			NNN.NNY.NNNN		
	EGR			Exhaust			Fuel/Evap			Ignition System			Other Repairs			Sensor/Switches		
	Init (%)	#	Final (%)	Init (%)	#	Final (%)	Init (%)	#	Final (%)	Init (%)	#	Final (%)	Init (%)	#	Final (%)	Init (%)	#	Final (%)
1991		0			0		0.06	4	0		0			0			0	
1992		0			0		0.98	1	0		0			0			0	
1993		0			0		0.48	1	0	0.13	1	0.15		0		2.99	1	0.13
1994		0		0.78	1	0.01	0.28	2	0	0.63	2	0.58		0			0	
1995	0.24	1	0.02	0.57	1	0	0.41	6	0	0.73	4	0.41	0.25	1	0.42	3.08	2	0.56
2002		0			0			0			0		1.1	1	0.56		0	

Repairs to OBD Vehicles and Associated DTCs

Reporting Period: 01/01/2015 - 12/31/2015

DTC Name	DTC Description	Repair Type																		Total
		Ignition System		Fuel Induction		Fuel/Evap		EGR		Sensor/Switches		Exhaust		Air Injection		Engine Repairs		Other Repairs		
		#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	
P0327	Knock Sensor 1 Circuit Low Input	6	11.1%	3	5.6%	2	3.7%	0	0.0%	32	59.3%	3	5.6%	0	0.0%	0	0.0%	8	14.8%	54
P0308	Cylinder 8 Misfire Detected	25	47.2%	5	9.4%	1	1.9%	2	3.8%	10	18.9%	1	1.9%	0	0.0%	2	3.8%	7	13.2%	53
P0156	O2 Sensor Circuit Malfunction	4	5.6%	5	7.0%	3	4.2%	2	2.8%	46	64.8%	4	5.6%	0	0.0%	0	0.0%	7	9.9%	71
P0106	Manifold Absolute Pressure/Barometric Pressure Circuit Range/Performance Problem	5	5.7%	6	6.9%	10	11.5%	4	4.6%	43	49.4%	5	5.7%	2	2.3%	1	1.1%	11	12.6%	87
P0030	H02S Heater Control Circuit	6	5.7%	2	1.9%	6	5.7%	1	0.9%	67	63.2%	3	2.8%	2	1.9%	2	1.9%	17	16.0%	106
P0453	Evaporative Emission Control System Pressure Sensor High Input	5	5.4%	8	8.6%	36	38.7%	3	3.2%	29	31.2%	3	3.2%	2	2.2%	1	1.1%	6	6.5%	93
P0332	Knock Sensor 2 Circuit Low Input	2	2.6%	4	5.3%	5	6.6%	2	2.6%	51	67.1%	2	2.6%	0	0.0%	1	1.3%	9	11.8%	76
P0011	A-Camshaft Position - Timing Over-Advanced or System Performance	6	5.0%	11	9.2%	7	5.8%	3	2.5%	45	37.5%	4	3.3%	5	4.2%	16	13.3%	23	19.2%	120
P0031	H02S Heater Control Circuit Low	5	4.5%	5	4.5%	4	3.6%	2	1.8%	76	67.9%	4	3.6%	4	3.6%	1	0.9%	11	9.8%	112
P0131	O2 Sensor Circuit Low Voltage	5	3.9%	8	6.2%	4	3.1%	11	8.5%	69	53.5%	11	8.5%	0	0.0%	3	2.3%	18	14.0%	129
P0506	Idle Control System RPM Lower Than Expected	9	13.2%	22	32.4%	4	5.9%	5	7.4%	14	20.6%	2	2.9%	4	5.9%	0	0.0%	8	11.8%	68
P0411	Secondary Air Injection System Incorrect Flow Detected	5	4.9%	6	5.8%	6	5.8%	7	6.8%	18	17.5%	3	2.9%	44	42.7%	2	1.9%	12	11.7%	103
P0341	Camshaft Position Sensor -A- Circuit Range/Performance	11	12.0%	3	3.3%	4	4.3%	6	6.5%	48	52.2%	4	4.3%	0	0.0%	3	3.3%	13	14.1%	92
P0014	B- Camshaft Position - Timing Over-Advanced or System Performance	6	5.2%	13	11.2%	10	8.6%	3	2.6%	56	48.3%	4	3.4%	2	1.7%	8	6.9%	14	12.1%	116
P0118	Engine Coolant Temperature Circuit High Input	9	8.3%	2	1.9%	5	4.6%	8	7.4%	58	53.7%	4	3.7%	2	1.9%	3	2.8%	17	15.7%	108
P0405	Exhaust Gas Recirculation Sensor -A- Circuit Low	3	3.7%	8	9.8%	3	3.7%	36	43.9%	21	25.6%	6	7.3%	2	2.4%	0	0.0%	3	3.7%	82
P0137	O2 Sensor Circuit Low Voltage	3	3.1%	1	1.0%	3	3.1%	1	1.0%	69	70.4%	9	9.2%	0	0.0%	0	0.0%	12	12.2%	98
P0740	Torque Converter Clutch Circuit	7	6.9%	0	0.0%	4	3.9%	9	8.8%	37	36.3%	6	5.9%	1	1.0%	7	6.9%	31	30.4%	102
P0122	Throttle/Pedal Position Sensor/Switch A Circuit Low Input	8	6.7%	7	5.9%	10	8.4%	5	4.2%	65	54.6%	7	5.9%	2	1.7%	3	2.5%	12	10.1%	119
P0139	O2 Sensor Circuit Slow Response	2	1.9%	7	6.7%	0	0.0%	0	0.0%	82	78.1%	5	4.8%	1	1.0%	0	0.0%	8	7.6%	105
P0403	Exhaust Gas Recirculation Control Circuit	1	1.2%	1	1.2%	1	1.2%	47	55.3%	22	25.9%	2	2.4%	1	1.2%	0	0.0%	10	11.8%	85
P0443	Evaporative Emission Control System Purge Control Valve Circuit	6	4.9%	4	3.3%	40	32.5%	7	5.7%	46	37.4%	1	0.8%	4	3.3%	2	1.6%	13	10.6%	123
P0113	Intake Air Temperature Circuit High Input	8	5.8%	24	17.4%	8	5.8%	5	3.6%	62	44.9%	5	3.6%	8	5.8%	2	1.4%	16	11.6%	138
P0700	Transmission Control System (MIL Request)	5	5.3%	6	6.3%	4	4.2%	1	1.1%	39	41.1%	10	10.5%	1	1.1%	5	5.3%	24	25.3%	95
P0406	Exhaust Gas Recirculation Sensor -A- Circuit High	1	1.1%	3	3.2%	2	2.2%	57	61.3%	17	18.3%	5	5.4%	1	1.1%	1	1.1%	6	6.5%	93
P0500	Vehicle Speed Sensor	9	6.3%	7	4.9%	8	5.6%	7	4.9%	83	57.6%	4	2.8%	2	1.4%	1	0.7%	23	16.0%	144
P0101	Mass or Volume Air Flow Circuit Range/Performance Problem	4	2.6%	26	17.2%	13	8.6%	6	4.0%	61	40.4%	8	5.3%	13	8.6%	0	0.0%	20	13.2%	151
P0153	O2 Sensor Circuit Slow Response	8	8.4%	7	7.4%	0	0.0%	6	6.3%	63	66.3%	1	1.1%	1	1.1%	0	0.0%	9	9.5%	95
P0505	Idle Control System	8	5.3%	36	24.0%	6	4.0%	10	6.7%	55	36.7%	7	4.7%	12	8.0%	3	2.0%	13	8.7%	150
P0130	O2 Sensor Circuit	2	2.1%	4	4.2%	3	3.1%	1	1.0%	70	72.9%	8	8.3%	1	1.0%	1	1.0%	6	6.3%	96
P0507	Idle Control System RPM Higher Than Expected	10	8.3%	31	25.6%	8	6.6%	10	8.3%	31	25.6%	3	2.5%	11	9.1%	3	2.5%	14	11.6%	121
P0335	Crankshaft Position Sensor A Circuit	8	7.7%	6	5.8%	7	6.7%	1	1.0%	69	66.3%	4	3.8%	1	1.0%	2	1.9%	6	5.8%	104
P0452	Evaporative Emission Control System Pressure Sensor Low Input	4	4.1%	6	6.1%	32	32.7%	8	8.2%	32	32.7%	7	7.1%	3	3.1%	0	0.0%	6	6.1%	98
P0172	System too Rich	12	7.6%	32	20.3%	17	10.8%	3	1.9%	48	30.4%	15	9.5%	11	7.0%	4	2.5%	16	10.1%	158
P0404	Exhaust Gas Recirculation Control Circuit Range/Performance	6	3.8%	10	6.3%	11	6.9%	82	51.3%	27	16.9%	8	5.0%	3	1.9%	0	0.0%	13	8.1%	160
P0121	Throttle/Pedal Position Sensor/Switch A Circuit Range/Performance Problem	7	3.8%	30	16.1%	14	7.5%	6	3.2%	89	47.8%	8	4.3%	10	5.4%	1	0.5%	21	11.3%	186
P0410	Secondary Air Injection System	5	2.9%	27	15.7%	12	7.0%	7	4.1%	34	19.8%	2	1.2%	73	42.4%	0	0.0%	12	7.0%	172
P0402	Exhaust Gas Recirculation Flow Excessive Detected	4	4.2%	4	4.2%	7	7.4%	42	44.2%	22	23.2%	4	4.2%	1	1.1%	0	0.0%	11	11.6%	95
P0125	Insufficient Coolant Temperature for Closed Loop Fuel Control	8	4.2%	12	6.3%	8	4.2%	9	4.7%	83	43.5%	12	6.3%	4	2.1%	10	5.2%	45	23.6%	191
P0161	O2 Sensor Heater Circuit	6	4.3%	1	0.7%	6	4.3%	2	1.4%	93	66.9%	9	6.5%	3	2.2%	3	2.2%	16	11.5%	139
P0421	Warm Up Catalyst Efficiency Below Threshold	11	6.3%	9	5.1%	9	5.1%	12	6.8%	42	23.9%	64	36.4%	9	5.1%	1	0.6%	19	10.8%	176
P0136	O2 Sensor Circuit Malfunction	3	2.5%	4	3.3%	2	1.7%	6	5.0%	84	70.0%	6	5.0%	1	0.8%	0	0.0%	14	11.7%	120
P0102	Mass or Volume Air Flow Circuit Low Input	14	5.8%	33	13.7%	19	7.9%	7	2.9%	113	46.9%	10	4.1%	16	6.6%	2	0.8%	27	11.2%	241
P0138	O2 Sensor Circuit High Voltage	6	4.8%	2	1.6%	5	4.0%	8	6.5%	83	66.9%	8	6.5%	0	0.0%	1	0.8%	11	8.9%	124
P0457	Evaporative Emission Control System Leak Detected fuel cap loose/off	3	1.9%	6	3.7%	85	52.8%	6	3.7%	33	20.5%	4	2.5%	4	2.5%	1	0.6%	19	11.8%	161
P0155	O2 Sensor Heater Circuit	6	3.8%	1	0.6%	11	7.0%	5	3.2%	118	75.2%	4	2.5%	1	0.6%	1	0.6%	10	6.4%	157
P0463	Fuel Level Sensor Circuit High Input	6	2.8%	19	9.0%	77	36.3%	6	2.8%	86	40.6%	4	1.9%	1	0.5%	0	0.0%	13	6.1%	212
P0340	Camshaft Position Sensor -A- Circuit	36	12.0%	19	6.4%	9	3.0%	7	2.3%	178	59.5%	5	1.7%	2	0.7%	9	3.0%	34	11.4%	299
P0134	O2 Sensor Circuit No Activity Detected	12	6.3%	8	4.2%	7	3.6%	3	1.6%	129	67.2%	10	5.2%	5	2.6%	2	1.0%	16	8.3%	192
P0306	Cylinder 6 Misfire Detected	65	43.3%	11	7.3%	8	5.3%	7	4.7%	24	16.0%	7	4.7%	3	2.0%	12	8.0%	13	8.7%	150

State of Georgia

Repairs to OBD Vehicles and Associated DTCs

Reporting Period: 01/01/2015 - 12/31/2015

DTC Name	DTC Description	Repair Type																		Total
		Ignition System		Fuel Induction		Fuel/Evap		EGR		Sensor/Switches		Exhaust		Air Injection		Engine Repairs		Other Repairs		
		#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	
P0305	Cylinder 5 Misfire Detected	71	42.3%	17	10.1%	4	2.4%	8	4.8%	31	18.5%	7	4.2%	2	1.2%	8	4.8%	20	11.9%	168
P0133	O2 Sensor Circuit Slow Response	15	5.1%	17	5.8%	13	4.4%	14	4.7%	179	60.7%	27	9.2%	6	2.0%	3	1.0%	21	7.1%	295
P0400	Exhaust Gas Recirculation Flow	14	3.9%	28	7.8%	18	5.0%	164	45.8%	74	20.7%	19	5.3%	5	1.4%	4	1.1%	32	8.9%	358
P0449	Evaporative Emission Control System Vent Valve/Solenoid Circuit	8	1.8%	18	4.0%	266	59.4%	16	3.6%	88	19.6%	8	1.8%	8	1.8%	3	0.7%	33	7.4%	448
P0325	Knock Sensor 1 Circuit	28	8.2%	23	6.7%	16	4.7%	15	4.4%	199	58.4%	15	4.4%	6	1.8%	4	1.2%	35	10.3%	341
P0302	Cylinder 2 Misfire Detected	169	40.5%	38	9.1%	16	3.8%	24	5.8%	72	17.3%	20	4.8%	11	2.6%	18	4.3%	49	11.8%	417
P0304	Cylinder 4 Misfire Detected	145	39.3%	33	8.9%	19	5.1%	13	3.5%	63	17.1%	22	6.0%	7	1.9%	14	3.8%	53	14.4%	369
P0456	Evaporative Emission Control System Leak Detected very small leak	19	4.1%	27	5.9%	257	55.9%	16	3.5%	64	13.9%	19	4.1%	10	2.2%	3	0.7%	45	9.8%	460
P0303	Cylinder 3 Misfire Detected	169	40.4%	31	7.4%	12	2.9%	22	5.3%	82	19.6%	18	4.3%	11	2.6%	15	3.6%	58	13.9%	418
P0301	Cylinder 1 Misfire Detected	166	36.0%	52	11.3%	23	5.0%	26	5.6%	72	15.6%	24	5.2%	8	1.7%	22	4.8%	68	14.8%	461
P0141	O2 Sensor Heater Circuit	21	4.3%	9	1.8%	25	5.1%	13	2.7%	353	72.0%	22	4.5%	4	0.8%	4	0.8%	39	8.0%	490
P0446	Evaporative Emission Control System Vent Control Circuit	11	2.4%	28	6.0%	221	47.2%	19	4.1%	101	21.6%	23	4.9%	15	3.2%	2	0.4%	48	10.3%	468
P0441	Evaporative Emission Control System Incorrect Purge Flow	16	3.2%	25	5.1%	246	49.8%	16	3.2%	86	17.4%	28	5.7%	14	2.8%	3	0.6%	60	12.1%	494
P0440	Evaporative Emission Control System	18	3.1%	32	5.5%	293	50.2%	25	4.3%	104	17.8%	10	1.7%	18	3.1%	5	0.9%	79	13.5%	584
P0128	Coolant Thermostat (Coolant Temperature Below Thermostat Regulating Temperature)	41	4.5%	60	6.6%	86	9.5%	36	4.0%	283	31.3%	48	5.3%	24	2.7%	69	7.6%	256	28.3%	903
P0135	O2 Sensor Heater Circuit	28	4.0%	15	2.1%	39	5.5%	17	2.4%	510	72.2%	34	4.8%	5	0.7%	2	0.3%	56	7.9%	706
P0430	Catalyst System Efficiency Below Threshold	24	3.3%	25	3.5%	39	5.4%	19	2.6%	169	23.4%	366	50.7%	7	1.0%	5	0.7%	68	9.4%	722
P0300	Random/Multiple Cylinder Misfire Detected	289	33.3%	87	10.0%	38	4.4%	36	4.1%	190	21.9%	71	8.2%	32	3.7%	28	3.2%	97	11.2%	868
P0442	Evaporative Emission Control System Leak Detected small leak	24	2.5%	53	5.6%	532	56.2%	34	3.6%	139	14.7%	42	4.4%	25	2.6%	12	1.3%	85	9.0%	946
P0455	Evaporative Emission Control System Leak Detected gross leak	34	3.5%	55	5.7%	528	54.4%	41	4.2%	153	15.8%	45	4.6%	20	2.1%	8	0.8%	87	9.0%	971
P0174	System too Lean	55	8.5%	128	19.9%	60	9.3%	49	7.6%	203	31.5%	29	4.5%	43	6.7%	9	1.4%	68	10.6%	644
P0401	Exhaust Gas Recirculation Flow Insufficient Detected	42	3.0%	106	7.6%	72	5.2%	736	53.0%	211	15.2%	70	5.0%	27	1.9%	14	1.0%	111	8.0%	1,389
P0171	System too Lean	133	6.8%	463	23.5%	159	8.1%	91	4.6%	595	30.2%	119	6.0%	144	7.3%	27	1.4%	239	12.1%	1,970
P0420	Catalyst System Efficiency Below Threshold	117	3.6%	112	3.5%	161	5.0%	98	3.0%	615	19.1%	1,731	53.8%	49	1.5%	16	0.5%	321	10.0%	3,220