



30 MPH, level ground

Vehicle speed	32.31	MPH	0	7.86	32.31
Mass air flow rate	1.43	lb/min	0.73	1.26	3.3
Calculated load value	21.18	%	20	30.53	45.88
Short term fuel % trim - Bank 1	1.56	%	-3.91	0.41	5.47
Long term fuel % trim - Bank 1	-0.78	%	-10.16	-5.35	6.25
Short term fuel % trim - Bank 2	0	%	-3.12	5.26	13.28
Long term fuel % trim - Bank 2	5.47	%	5.47	8.83	9.38
Engine RPM	1975	RPM	850	1312.88	2912.5
Ignition timing advance for #1 cylinder	37		5	27.97	46
Absolute throttle position	3.14	%	2.75	4.14	8.63
O2 voltage (Bank 1, Sensor 1)	0.29	V	0.23	0.3	0.34
Short term fuel trim (Bank 1, Sensor 1)	0	%	-6.25	0.71	5.47
O2 voltage (Bank 1, Sensor 2)	0.84	V	0.28	0.49	0.92
Short term fuel trim (Bank 1, Sensor 2)	99.22	%	99.22	99.22	99.22
O2 voltage (Bank 2, Sensor 1)	0.59	V	0.57	0.6	0.63
Short term fuel trim (Bank 2, Sensor 1)	-0.78	%	-3.12	4.69	15.62
O2 voltage (Bank 2, Sensor 2)	0.81	V	0.17	0.45	0.83
Short term fuel trim (Bank 2, Sensor 2)	99.22	%	99.22	99.22	99.22
Engine coolant temperature	183.2	F	183.2	183.2	183.2
Intake air temperature	95	F	95	105.8	116.6
Distance traveled while MIL is activated	30.45	miles	30.45	30.45	30.45

50 MPH, level ground

Description	Value	Units	Min	Mean	Max
Vehicle speed	48.47	MPH	0	18.15	49.71
Mass air flow rate	1.81	lb/min	0.73	1.42	4.41
Calculated load value	34.12	%	15.69	29.66	62.35
Short term fuel % trim - Bank 1	0	%	-7.03	-0.04	5.47
Long term fuel % trim - Bank 1	-4.69	%	-10.16	-3.98	8.59
Short term fuel % trim - Bank 2	7.03	%	-3.12	3.79	13.28
Long term fuel % trim - Bank 2	9.38	%	-1.56	8.11	9.38
Engine RPM	1525	RPM	850	1478.12	2912.5
Ignition timing advance for #1 cylinder	34		5	28.12	46
Absolute throttle position	5.1	%	2.75	4.4	12.94
O2 voltage (Bank 1, Sensor 1)	0.3	V	0.23	0.32	0.81
Short term fuel trim (Bank 1, Sensor 1)	0	%	-6.25	0.09	5.47
O2 voltage (Bank 1, Sensor 2)	0.7	V	0	0.55	0.94
Short term fuel trim (Bank 1, Sensor 2)	99.22	%	99.22	99.22	99.22
O2 voltage (Bank 2, Sensor 1)	0.57	V	0.53	0.63	1.27
Short term fuel trim (Bank 2, Sensor 1)	0.78	%	-3.91	3.29	15.62
O2 voltage (Bank 2, Sensor 2)	0.82	V	0	0.49	0.89
Short term fuel trim (Bank 2, Sensor 2)	99.22	%	99.22	99.22	99.22
Engine coolant temperature	183.2	F	183.2	183.2	183.2
Intake air temperature	82.4	F	82.4	97.52	116.6
Distance traveled while MIL is activated	31.07	miles	30.45	30.76	31.07

40 MPH, slightly uphill

Description	Value	Units	Min	Mean	Max
Vehicle speed	41.01	MPH	0	20.1	49.71
Mass air flow rate	4.78	lb/min	0.73	1.5	6.81
Calculated load value	65.88	%	15.69	30.77	70.2
Short term fuel % trim - Bank 1	-0.78	%	-10.16	-0.59	6.25
Long term fuel % trim - Bank 1	7.81	%	-10.16	-3.53	8.59
Short term fuel % trim - Bank 2	1.56	%	-3.12	2.81	13.28
Long term fuel % trim - Bank 2	-0.78	%	-3.91	7.64	9.38
Engine RPM	2500	RPM	850	1468.82	2912.5
Ignition timing advance for #1 cylinder	14		5	26.25	46
Absolute throttle position	16.08	%	2.75	4.8	16.86
O2 voltage (Bank 1, Sensor 1)	0.29	V	0.18	0.31	0.81
Short term fuel trim (Bank 1, Sensor 1)	-2.34	%	-6.25	-0.01	7.81
O2 voltage (Bank 1, Sensor 2)	0.83	V	0	0.62	0.94
Short term fuel trim (Bank 1, Sensor 2)	99.22	%	99.22	99.22	99.22
O2 voltage (Bank 2, Sensor 1)	0.59	V	0.53	0.62	1.27
Short term fuel trim (Bank 2, Sensor 1)	1.56	%	-3.91	2.49	15.62
O2 voltage (Bank 2, Sensor 2)	0.5	V	0	0.54	0.89
Short term fuel trim (Bank 2, Sensor 2)	99.22	%	99.22	99.22	99.22
Engine coolant temperature	186.8	F	183.2	184.1	186.8
Intake air temperature	86	F	80.6	91.85	116.6
Distance traveled while MIL is activated	32.93	miles	30.45	31.69	32.93

Cold, engine off, after clearing trouble codes. This was before the road test.

Description	Value	Units	Min	Mean	Max
Calculated load value	0	%	0	0	0
Engine coolant temperature	78.8	F			
Short term fuel % trim - Bank 1	0	%	0	0	0
Long term fuel % trim - Bank 1	0	%	0	0	0
Short term fuel % trim - Bank 2	0	%	0	0	0
Long term fuel % trim - Bank 2	0	%	0	0	0
Engine RPM	0	RPM	0	0	0
Vehicle speed	0	MPH	0	0	0
Ignition timing advance for #1 cylinder	63.5		63.5	63.5	63.5
Intake air temperature	87.8	F			
Mass air flow rate	0.12	lb/min	0.12	0.12	0.12
Absolute throttle position	0	%	0	0	0
O2 voltage (Bank 1, Sensor 1)	0.3	V	0.3	0.3	0.3
Short term fuel trim (Bank 1, Sensor 1)	0	%	0	0	0
O2 voltage (Bank 1, Sensor 2)	0.28	V	0.28	0.28	0.28
Short term fuel trim (Bank 1, Sensor 2)	99.22	%	99.22	99.22	99.22
O2 voltage (Bank 2, Sensor 1)	0.61	V	0.61	0.61	0.62
Short term fuel trim (Bank 2, Sensor 1)	0	%	0	0	0
O2 voltage (Bank 2, Sensor 2)	0.28	V	0.28	0.28	0.28
Short term fuel trim (Bank 2, Sensor 2)	99.22	%	99.22	99.22	99.22
Distance traveled while MIL is activated	0	miles			

Hot in Park, idle, after a short trip.

Description	Value	Units	Min	Mean	Max
Mass air flow rate	0.57	lb/min	0.12	0.59	1.08
Vehicle speed	0	MPH	0	0	0
Calculated load value	23.53	%	0	19.65	25.49
Engine coolant temperature	161.6	F	143.6	152.6	161.6
Short term fuel % trim - Bank 1	0	%	-3.91	-0.6	3.12
Long term fuel % trim - Bank 1	-6.25	%	-6.25	-3.91	0
Short term fuel % trim - Bank 2	13.28	%	0	10.04	14.06
Long term fuel % trim - Bank 2	9.38	%	0	8.02	9.38
Engine RPM	787.5	RPM	0	824.39	1600
Ignition timing advance for #1 cylinder	6		6	16.7	63.5
Intake air temperature	89.6	F	89.6	89.6	89.6
Absolute throttle position	3.14	%	0.39	2.69	3.14
O2 voltage (Bank 1, Sensor 1)	0.29	V	0.27	0.3	0.32
Short term fuel trim (Bank 1, Sensor 1)	-2.34	%	-3.12	-0.48	3.91
O2 voltage (Bank 1, Sensor 2)	0.8	V	0.27	0.45	0.8
Short term fuel trim (Bank 1, Sensor 2)	99.22	%	99.22	99.22	99.22
O2 voltage (Bank 2, Sensor 1)	0.6	V	0.57	0.6	0.62
Short term fuel trim (Bank 2, Sensor 1)	14.06	%	0	10.27	14.84
O2 voltage (Bank 2, Sensor 2)	0.19	V	0.19	0.25	0.28
Short term fuel trim (Bank 2, Sensor 2)	99.22	%	99.22	99.22	99.22
Distance traveled while MIL is activated	11.18	miles	11.18	11.18	11.18