







# 2004 CHEVROLET SILVERADO 3500



ANY 6.0 V8 (U) GAS

**Excellent** 

■ Report Summary	
Report Name	VehicleMRI KOER
Report Number	670
Report Time	03/21/2012 5:35 PM
Performed By	John Smith
Company ID	55

Vehicle Information		
VIN	1GBJK39U84E222336	
Year	2004	
Make	CHEVROLET	
Model	SILVERADO 3500	
Engine	6.0 V8 (U)	
Odometer	2880	
Vehicle ID		

Other Summary	
Items Checked	193
Duration	02:52 (Min:Sec)
Device	EVI-6
Firmware Version	EVI6_01_
Script Version	9
<b>Applet Version</b>	1.0.0.15
<b>Database Version</b>	3/19/2012

■ Category Details			
Category	Overall	Key On	Engine Running
Report Preconditions	■ N/A	NOT SUPPORTED	■ N/A
□ Vehicle Information	■ N/A	■ N/A	■ N/A
MIL / DTC / IM / Dash Lights	O PASS	O PASS	■ N/A
Battery	COND PASS	O PASS	COND PASS
Powertrain Misc.	O PASS	■ N/A	O PASS
Oxygen Sensors	O PASS	O PASS	O PASS
Evaporative System	■ N/A	■ N/A	NOT SUPPORTED
Temperatures	O PASS	■ N/A	O PASS
🖺 Fuel Trim	O PASS	■ N/A	O PASS
Fuel/Pressure & Rates	NOT SUPPORTED	NOT SUPPORTED	NOT SUPPORTED
	NOT GRADED	■ N/A	NOT GRADED
Throttle/Accelerator	O PASS	O PASS	■ N/A
Misfire / Injectors	■ N/A	■ N/A	■ N/A
Transmission	■ N/A	■ N/A	■ N/A
ABS / Airbag	■ N/A	■ N/A	■ N/A
Body Misc.	■ N/A	■ N/A	■ N/A



## **Report Provided By**

# demo

Vehicle Research Center, Building 2 187 Commerce Drive Scott Township, PA 18447 1(570)241-0769

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## Failed Items Details

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**CRITICAL ALERTS: NONE** 

#### Failed Items Details

### No issues found.

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Toll Free: 855-2MRI-NOW (855-267-4669) Phone: 570-241-0769 Fax: 855-221-5620 Support: 570-351-1376
http://www.vehiclemri.com





Report Details			
Test	Value	Result	Note
Report Precor	nditions - NO	T SUPPORTE	D
Preconditions	UNDETERMINED UNDETERMINED		
Additional Notes			M and 825 RPM and Coolant Temp. over 140 deg F but not over 225 deg stem Loop Status must be in CLOSED LOOP.
宾 MIL / DTC / IM	/ Dash Light	ts - PASS	
Commanded MIL	OFF	PASS	No Emissions related DTCs are active.
Additional Notes			
Generic Stored DTCs	0	PASS	No Emissions related Error Codes detected.
Additional Notes			
Generic Pending DTCs	0	PASS	No Emissions related Error Codes detected.
Additional Notes			
Permanent DTCs	0	PASS	No Permanent Emissions related Error Codes detected.
Additional Notes			
Non-Continuous Monitors (Mode \$06)	0	PASS	All Supported Tests have Passed
MODE06	CHECKED: 44		
MODE06	PASS : 44		
MODE06	FAIL: 0		
MODE06	INCOMPLETE: 0		
Additional Notes			
Battery - PASS	8		
Highest Voltage Since Power Up	13.84 Volts	PASS	
Additional Notes			
Battery (KOER)	R) - COND PA	SS	
Lowest Battery Voltage During Crank	6.09 V	COND PASS	Battery may be getting too weak to effectively start engine. Perform appropriate battery load and starter tests to confirm.
Additional Notes			
Battery Voltage (Under Load); Alternator		PASS	
MIN	12.65 Volts	PASS	
MAX	13.21 Volts	PASS	
AVG	13.02 Volts	PASS	Voltage is within normal range.
Peak-To-Peak	0.56 Volts	PASS	
Standard Deviation	0.08 Volts		
Additional Notes			
Battery Voltage (No Load); Alternator		PASS	
MIN	13.3 Volts	PASS	
MAX	13.75 Volts	PASS	

■ Report Details			
Test	Value	Result	Note
AVG	13.53 Volts	PASS	
Peak-To-Peak	0.45 Volts	PASS	
Standard Deviation	0.07 Volts		
Additional Notes			
Powertrain Mi	sc. (KOER)	- PASS	
Manifold Absolute Pressure		PASS	
MIN	11.22 in Hg	PASS	
MAX	11.52 in Hg	PASS	
AVG	11.33 in Hg	PASS	Pressure is within normal range
Peak-To-Peak	0.3 in Hg	PASS	Engine has a very stable manifold pressure
Standard Deviation	0.14 in Hg		
Additional Notes			
MAF Analysis		PASS	
MIN	7.02 gm/s	PASS	
MAX	7.11 gm/s	PASS	
AVG	7.07 gm/s	PASS	
Peak-To-Peak	0.09 gm/s	PASS	Airflow is Stable
Standard Deviation	0.02 gm/s		
# Samples			
Additional Notes			
Engine Speed		PASS	
MIN	562.0 RPM	PASS	
MAX	589.0 RPM	PASS	
AVG	577.56 RPM	PASS	Within normal idle range
Peak-To-Peak	27.0 RPM	PASS	The engine is running smoothly
Standard Deviation	6.52 RPM		
Additional Notes			
Ignition Timing Advance for Cylinder 1			
MIN	14.0 deg		
MAX	22.0 deg		
AVG	16.26 deg		
Peak-To-Peak	8.0 deg		
Standard Deviation	1.61 deg		
Additional Notes			
Engine Vacuum		PASS	
MIN	18.4 in Hg	PASS	
MAX	18.7 in Hg	PASS	
AVG	18.68 in Hg	PASS	Vacuum is within normal range.
Peak-To-Peak	0.3 in Hg	PASS	Engine has a very stable vacuum
Freq. of AVG	0.4 Hz		
Standard Deviation	0.07 in Hg		
Additional Notes			
Vehicle Speed Sensor		PASS	
MIN	0 mph		
MAX	0 mph	PASS	

Report Details			
Test	Value	Result	Note
AVG	0 mph	PASS	
Peak-To-Peak	0 mph		
Standard Deviation	0 mph		
Additional Notes			
Oxygen Senso	ors - PASS		
2 Locations	38V-2SD	PASS	
\$13 Location of O2 Sensors	33		
\$1D Location of O2 Sensors	NOT SUPPORTED	NOT SUPPORTED	
Additional Notes			
Oxygen Senso	ors (KOER) - P	ASS	
uel System Status	CLOSED LOOP	PASS	
Fuel System 1	CLOSED LOOP	PASS	Closed loop: using oxygen sensor(s) as feedback for fuel control
Fuel System 2	CLOSED LOOP	PASS	Closed loop: using oxygen sensor(s) as feedback for fuel control
Additional Notes			
02 Bank 1 Sensor 1 (\$13)		PASS	
MIN	0.06 Volts	PASS	
MAX	0.79 Volts	PASS	
AVG			
	0.49 Volts	PASS	
Peak-To-Peak	0.73 Volts	PASS	
Freq. of AVG	0.5 Hz	PASS	
Cross count	11	PASS	
Standard Deviation	0.25 Volts		
Lean to Rich Switch Time (Average)	179.0 ms	PASS	
Rich to Lean Switch Time (Average)	212.89 ms	PASS	
# Samples	73		
O2 Histo - Lean	19.98 %		
O2 Histo - Center Lean	15.85 %		
O2 Histo - Center	14.32 %		
O2 Histo - Center Rich	49.85 %		
O2 Histo - Rich	0.0 %		
Additional Notes			
02 Bank 1 Sensor 2 (\$13)		PASS	
MIN	0.23 Volts	PASS	
MAX	0.96 Volts	PASS	
AVG	0.71 Volts	PASS	
Peak-To-Peak	0.73 Volts	PASS	
Freq. of AVG	0.4 Hz	. 7.00	
Cross count	4		
Standard Deviation	0.24 Volts		
Lean to Rich Switch Time (Average)	320.0 ms		
Rich to Lean Switch Time (Average)	568.18 ms		
# Samples	75		
# Jailipies	13		

Report Details			
Test	Value	Result	Note
O2 Histo - Lean	0.0 %		
O2 Histo - Center Lean	16.26 %		
O2 Histo - Center	7.63 %		
O2 Histo - Center Rich	23.87 %		
O2 Histo - Rich	52.23 %		
Additional Notes			
O2 Bank 2 Sensor 1 (\$13)		PASS	
MIN	0.06 Volts	PASS	
MAX	0.84 Volts	PASS	
AVG	0.54 Volts	PASS	
Peak-To-Peak	0.78 Volts	1 AGG	
Freq. of AVG	0.78 Volts 0.6 Hz	PASS	
Cross count	8	PASS	
Standard Deviation	0.29 Volts	FMOO	
Lean to Rich Switch Time	125.0 ms	PASS	
(Average)			
Rich to Lean Switch Time (Average)	248.28 ms	PASS	
# Samples	73		
O2 Histo - Lean	24.47 %		
O2 Histo - Center Lean	6.88 %		
O2 Histo - Center	8.37 %		
O2 Histo - Center Rich	43.95 %		
O2 Histo - Rich	16.33 %		
Additional Notes			
O2 Bank 2 Sensor 2 (\$13)		PASS	
MIN	0.13 Volts	PASS	
MAX	0.91 Volts	PASS	
AVG	0.55 Volts	PASS	
Peak-To-Peak	0.78 Volts	PASS	
Freq. of AVG	0.6 Hz		
Cross count	12		
Standard Deviation	0.28 Volts		
Lean to Rich Switch Time (Average)	128.0 ms		
Rich to Lean Switch Time (Average)	246.56 ms		
# Samples	73		
O2 Histo - Lean	14.68 %		
O2 Histo - Center Lean	18.4 %		
O2 Histo - Center	15.59 %		
O2 Histo - Center Rich	20.84 %		
O2 Histo - Rich	30.49 %		
Additional Notes	300 /0		
Temperatures	(KOER) - P/	ASS	

**PASS** 

**PASS** 

**PASS** 

186.8 °F

188.6 °F

Engine Coolant Temperature

MIN

MAX

Value	Result	Note
186.94 °F	PASS	
1.8 °F		
0.5 °F		
	PASS	
111.2 °F	PASS	
111.2 °F	PASS	
111.2 °F	PASS	
0 °F		
0 °F		
PASS		
	DACC	
2 24 9/		
	PASS	
0.9 %		
	PASS	
-0.78 %	PASS	
0.78 %	PASS	
-0.35 %	PASS	
1.56 %	PASS	
0.53 %		
	PASS	
2.34 %	PASS	
2.34 %	PASS	
2.34 %	PASS	
0.0 %	PASS	
0.0 %		
	PASS	
0.78 %	PASS	
0.78 %	PASS	
0.78 %	PASS	
	PASS	
(KOFR) - NO	T GRADED	
(		
0.05.0/		
2.35 % 2.35 %		
	186.94 °F  1.8 °F  0.5 °F  111.2 °F  111.2 °F  111.2 °F  0 °F  0 °F  0 °F  -2.34 %  1.56 %  -0.25 %  3.9 %  0.9 %  -0.78 %  0.78 %  0.53 %  2.34 %  2.34 %  2.34 %  0.0 %  0.0 %  0.78 %  0.0 %  0.78 %  0.78 %  0.78 %  0.0 %  0.78 %  0.0 %	186.94 °F

■ Report Details				
Test	Value	Result	Note	
Peak-To-Peak	0.0 %			
Standard Deviation	0.0 %			
Additional Notes				
Throttle/Accelerator - PASS				

Additional Notes	
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**PASS** 

Absolute Throttle Position

7.45 %