



VehicleMRI™



1999 FORD F-350 SUPER DUTY PICKUP

C+

ANY 6.8 V10 (S) GAS

Average

Report Summary	
Report Name	VehicleMRI Complete+
Report Number	659
Report Time	03/20/2012 5:40 PM
Performed By	Root Root
Company ID	55

Vehicle Information	
VIN	1FDWF36S4XEE60208
Year	1999
Make	FORD
Model	F-350 SUPER DUTY PICKUP
Engine	6.8 V10 (S)
Odometer	0
Vehicle ID	DC5896J

Other Summary	
Items Checked	233
Duration	04:49 (Min:Sec)
Device	EVI-6
Firmware Version	EVI6_00
Script Version	1
Applet Version	1.0.0.15
Database Version	3/19/2012

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

Report Summary	
Report Name	VehicleMRI Complete+
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Report Time	03/20/2012 5:40 PM
Performed By	Root Root
Company ID	55

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VIN	1FDWF36S4XEE60208
Year	1999
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Vehicle ID	DC5896J

Other Summary	
Items Checked	233
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Device	EVI-6
Firmware Version	EVI6_00
Script Version	1
Applet Version	1.0.0.15
Database Version	3/19/2012

CRITICAL ALERTS: NONE

Failed Items Details

Test	Value	Result	Note
MIL / DTC / IM / Dash Lights - FAIL			
Ford Enhanced DTC Scan	2	FAIL	
Powertrain Control Module (10)	P1000	FAIL	
Generic Electronic Module (52)	B1352	FAIL	
Additional Notes			
IM Readiness Status	5	COND FAIL	It appears the DTCs were just cleared. Perform a test drive/Run Drive Cycle to COMPLETE monitor(s) and retest.
Catalyst	NOT COMPLETE	COND FAIL	Run Drive Cycle to COMPLETE monitor(s) and retest.
Evaporative System	NOT COMPLETE	COND FAIL	Run Drive Cycle to COMPLETE monitor(s) and retest. To properly test, Fuel level must be between 15% and 85%.
Oxygen Sensor	NOT COMPLETE	COND FAIL	Run Drive Cycle to COMPLETE monitor(s) and retest.
Oxygen Sensor Heater	NOT COMPLETE	COND FAIL	Run Drive Cycle to COMPLETE monitor(s) and retest.
EGR System	NOT COMPLETE	COND FAIL	Run Drive Cycle to COMPLETE monitor(s) and retest.
Additional Notes			
Non-Continuous Monitors (Mode \$06)	3	FAIL	One or more tests have failed. Use a Diagnostic tool for details.
Additional Notes			
Emissions Readiness	NOT READY	COND FAIL	If you register this vehicle in a state/county with an emissions inspection program, the Emissions Readiness cannot be determined at this time. Run a Drive Cycle and retest.
Additional Notes			
Oxygen Sensors (KOER) - FAIL			
Fuel System Status	OPEN LOOP	FAIL	
Fuel System 1	OPEN LOOP	FAIL	Open loop: has not yet satisfied conditions to go closed loop. Open loop: due to driving conditions (e.g. Power Enrichment, Deceleration, Enleanment). Open loop: due to detected system fault.
Additional Notes			
O2 Bank 1 Sensor 2 (\$13)		COND FAIL	
MAX	0.0 Volts	COND FAIL	O2 Sensor has not reported a RICH state. Sensor may still be ok, perform appropriate diagnostic tests to determine sensor condition.

Failed Items Details

Test	Value	Result	Note
AVG	0.0 Volts	COND FAIL	Engine running LEAN.
Peak-To-Peak	0.0 Volts	COND FAIL	No or minimal sensor activity detected.
Additional Notes			
HO2 Bank 1 Sensor 1 Voltage		FAIL	
MIN	4.36 Volts	FAIL	O2 Sensor has not reported a LEAN state
AVG	4.36 Volts	FAIL	Engine running RICH.
Peak-To-Peak	0.0 Volts	FAIL	No or minimal sensor activity detected.
Additional Notes			
HO2 Bank 2 Sensor 1 Voltage		FAIL	
MIN	4.36 Volts	FAIL	O2 Sensor has not reported a LEAN state
AVG	4.36 Volts	FAIL	Engine running RICH.
Peak-To-Peak	0.0 Volts	FAIL	No or minimal sensor activity detected.
Additional Notes			
HO2 Bank 1 Sensor 2 Voltage		FAIL	
MIN	4.36 Volts	FAIL	O2 Sensor has not reported a LEAN state
AVG	4.36 Volts	FAIL	Engine running RICH.
Peak-To-Peak	0.0 Volts	FAIL	No or minimal sensor activity detected.
Additional Notes			



Transmission - FAIL

TCC System	13.82	FAIL	
TCC Duty Cycle	13.82 %	FAIL	
Additional Notes			

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Report Details

Test	Value	Result	Note
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Report Preconditions - **PASS**

Preconditions		PASS	All Procedure Preconditions PASSED
Engine Speed (Generic)	0.0 RPM		
Additional Notes			

MIL / DTC / IM / Dash Lights - **FAIL**

Commanded MIL	OFF	PASS	No Emissions related DTCs are active.
Additional Notes			

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			

Ford Enhanced DTC Scan	2	FAIL	
Powertrain Control Module (10)	P1000	FAIL	
Anti-Lock Brake / Traction Control Module(28)	0	PASS	
Generic Electronic Module (52)	B1352	FAIL	
Restraint Control Module (58)	0	PASS	
Additional Notes			

Freeze Frame	NO	PASS	No Freeze Frame Data Present.
Additional Notes			

IM Readiness Status	5	COND FAIL	It appears the DTCs were just cleared. Perform a test drive/Run Drive Cycle to COMPLETE monitor(s) and retest.
Misfire	COMPLETE	PASS	
Fuel System	COMPLETE	PASS	
Comprehensive component	COMPLETE	PASS	
Catalyst	NOT COMPLETE	COND FAIL	Run Drive Cycle to COMPLETE monitor(s) and retest.
Heated Catalyst	NOT SUPPORTED	NOT SUPPORTED	NOT SUPPORTED
Evaporative System	NOT COMPLETE	COND FAIL	Run Drive Cycle to COMPLETE monitor(s) and retest. To properly test, Fuel level must be between 15% and 85%.
Secondary Air System	NOT SUPPORTED	NOT SUPPORTED	NOT SUPPORTED
Oxygen Sensor	NOT COMPLETE	COND FAIL	Run Drive Cycle to COMPLETE monitor(s) and retest.
Oxygen Sensor Heater	NOT COMPLETE	COND FAIL	Run Drive Cycle to COMPLETE monitor(s) and retest.

Report Details

Test	Value	Result	Note
EGR System	NOT COMPLETE	COND FAIL	Run Drive Cycle to COMPLETE monitor(s) and retest.
Additional Notes			
Non-Continuous Monitors (Mode \$06)	3	FAIL	One or more tests have failed. Use a Diagnostic tool for details.
MODE06	CHECKED : 29		
MODE06	PASS : 26		
MODE06	FAIL : 3		
MODE06	INCOMPLETE : 0		
Additional Notes			
OBD Support Level	OBD II (California ARB)		
Additional Notes			
Emissions Readiness	NOT READY	COND FAIL	If you register this vehicle in a state/county with an emissions inspection program, the Emissions Readiness cannot be determined at this time. Run a Drive Cycle and retest.
Additional Notes			

Battery - PASS

Battery Voltage Under Load		PASS	
MIN	12.43 Volts	PASS	
MAX	12.61 Volts		
AVG	12.54 Volts	PASS	
Peak-To-Peak	0.18 Volts		
Standard Deviation	0.02 Volts		
Additional Notes			
Battery Voltage (No Load)		PASS	
MIN	12.45 Volts	PASS	
MAX	12.61 Volts	PASS	
AVG	12.54 Volts	PASS	Voltage is within normal range
Peak-To-Peak	0.16 Volts		
Standard Deviation	0.02 Volts		
Additional Notes			

Battery (KOER) - PASS

Battery Voltage (Under Load); Alternator		PASS	
MIN	13.17 Volts	PASS	
MAX	14.13 Volts	PASS	
AVG	13.74 Volts	PASS	Voltage is within normal range.
Peak-To-Peak	0.96 Volts	PASS	
Standard Deviation	0.15 Volts		
Additional Notes			
Battery Voltage (No Load); Alternator		PASS	
MIN	13.71 Volts	PASS	
MAX	14.25 Volts	PASS	
AVG	14.04 Volts	PASS	
Peak-To-Peak	0.54 Volts	PASS	

Report Details

Test	Value	Result	Note
Standard Deviation	0.05 Volts		
Additional Notes			

Powertrain Misc. - **PASS**

Engine Speed	0.0 RPM	PASS	
Additional Notes			

Vehicle Speed Sensor	0 mph	PASS	
Additional Notes			

MAF Analysis	1.7 gm/s		
Additional Notes			

Ignition Timing Advance for Cylinder 1	0.0 deg		
Additional Notes			

Case Ground Voltage	2.84 V		
Additional Notes			

Powertrain Misc. (KOER) - **PASS**

Engine Speed		PASS	
MIN	792.0 RPM	PASS	
MAX	817.0 RPM	PASS	
AVG	805.3 RPM	PASS	Within normal idle range
Peak-To-Peak	25.0 RPM	PASS	The engine is running smoothly
Standard Deviation	6.62 RPM		
Additional Notes			

MAF Analysis		PASS	
MIN	8.59 gm/s	PASS	
MAX	9.65 gm/s	PASS	
AVG	9.08 gm/s	PASS	
Peak-To-Peak	1.06 gm/s	PASS	Airflow is Stable
Standard Deviation	0.21 gm/s		
# Samples			
Additional Notes			

Ignition Timing Advance for Cylinder 1			
MIN	14.0 deg		
MAX	16.0 deg		
AVG	15.17 deg		
Peak-To-Peak	2.0 deg		
Standard Deviation	0.46 deg		
Additional Notes			

Vehicle Speed Sensor		PASS	
MIN	0 mph		
MAX	0 mph	PASS	
AVG	0 mph	PASS	
Peak-To-Peak	0 mph		
Standard Deviation	0 mph		
Additional Notes			

Report Details

Test	Value	Result	Note
Case Ground Voltage	2.84 V		
Additional Notes			

Oxygen Sensors - **PASS**

O2 Locations	Value	Result	Note
	UNKNOWN	PASS	
\$13 Location of O2 Sensors	13		
\$1D Location of O2 Sensors	NOT SUPPORTED	NOT SUPPORTED	
Additional Notes			

O2 Sensor Voltage (Location \$13)

Test	Value	Result	Note
\$13, \$1D - O2 Volts, B1 S1	0.02 V		
\$13, \$1D - O2 Volts, B1 S2	0.0 V		
\$13 O2 Volts, B1 S3	NOT SUPPORTED	NOT SUPPORTED	
\$13 O2 Volts, B1 S4	NOT SUPPORTED	NOT SUPPORTED	
\$13 O2 Volts, B2 S1	0.01 V		
\$13 O2 Volts, B2 S2	NOT SUPPORTED	NOT SUPPORTED	
\$13 O2 Volts, B2 S3	NOT SUPPORTED	NOT SUPPORTED	
\$13 O2 Volts, B2 S4	NOT SUPPORTED	NOT SUPPORTED	
Additional Notes			

Oxygen Sensors (KOER) - **FAIL**

Fuel System Status	Value	Result	Note
	OPEN LOOP	FAIL	
Fuel System 1	OPEN LOOP	FAIL	Open loop: has not yet satisfied conditions to go closed loop. Open loop: due to driving conditions (e.g. Power Enrichment, Deceleration, Enleanment). Open loop: due to detected system fault.
Fuel System 2	NOT USED		
Additional Notes			

O2 Bank 1 Sensor 1 (\$13)

Test	Value	Result	Note
MIN	0.05 Volts	PASS	
MAX	0.79 Volts	PASS	
AVG	0.41 Volts	PASS	
Peak-To-Peak	0.74 Volts	PASS	
Freq. of AVG	0.5 Hz	PASS	
Cross count	10	PASS	
Standard Deviation	0.31 Volts		
Lean to Rich Switch Time (Average)	176.0 ms	PASS	
Rich to Lean Switch Time (Average)	202.29 ms	PASS	
# Samples	64		
O2 Histo - Lean	41.17 %		
O2 Histo - Center Lean	8.14 %		
O2 Histo - Center	8.52 %		
O2 Histo - Center Rich	42.17 %		

Report Details

Test	Value	Result	Note
O2 Histo - Rich	0.0 %		
Additional Notes			
O2 Bank 1 Sensor 2 (\$13)		COND FAIL	
MIN	0.0 Volts	PASS	
MAX	0.0 Volts	COND FAIL	O2 Sensor has not reported a RICH state. Sensor may still be ok, perform appropriate diagnostic tests to determine sensor condition.
AVG	0.0 Volts	COND FAIL	Engine running LEAN.
Peak-To-Peak	0.0 Volts	COND FAIL	No or minimal sensor activity detected.
Freq. of AVG	0.0 Hz		
Cross count	0		
Standard Deviation	0.0 Volts		
Lean to Rich Switch Time (Average)	UNDETERMINED		
Rich to Lean Switch Time (Average)	UNDETERMINED		
# Samples	64		
O2 Histo - Lean	100.0 %		
O2 Histo - Center Lean	0.0 %		
O2 Histo - Center	0.0 %		
O2 Histo - Center Rich	0.0 %		
O2 Histo - Rich	0.0 %		
Additional Notes			
O2 Bank 2 Sensor 1 (\$13)		PASS	
MIN	0.07 Volts	PASS	
MAX	0.81 Volts	PASS	
AVG	0.44 Volts	PASS	
Peak-To-Peak	0.74 Volts		
Freq. of AVG	0.5 Hz	PASS	
Cross count	10	PASS	
Standard Deviation	0.3 Volts		
Lean to Rich Switch Time (Average)	172.0 ms	PASS	
Rich to Lean Switch Time (Average)	200.81 ms	PASS	
# Samples	65		
O2 Histo - Lean	37.32 %		
O2 Histo - Center Lean	6.44 %		
O2 Histo - Center	8.4 %		
O2 Histo - Center Rich	45.62 %		
O2 Histo - Rich	2.22 %		
Additional Notes			
HO2 Bank 1 Sensor 1 Voltage		FAIL	
MIN	4.36 Volts	FAIL	O2 Sensor has not reported a LEAN state
MAX	4.36 Volts	PASS	
AVG	4.36 Volts	FAIL	Engine running RICH.
Peak-To-Peak	0.0 Volts	FAIL	No or minimal sensor activity detected.
Freq. of AVG	0.0 Hz		
Standard Deviation	0.0 Volts		
# Samples	20		

Report Details

Test	Value	Result	Note
Additional Notes			
HO2 Bank 2 Sensor 1 Voltage		FAIL	
MIN	4.36 Volts	FAIL	O2 Sensor has not reported a LEAN state
MAX	4.36 Volts	PASS	
AVG	4.36 Volts	FAIL	Engine running RICH.
Peak-To-Peak	0.0 Volts	FAIL	No or minimal sensor activity detected.
Freq. of AVG	0.0 Hz		
Standard Deviation	0.0 Volts		
# Samples	20		
Additional Notes			
HO2 Bank 1 Sensor 2 Voltage		FAIL	
MIN	4.36 Volts	FAIL	O2 Sensor has not reported a LEAN state
MAX	4.36 Volts	PASS	
AVG	4.36 Volts	FAIL	Engine running RICH.
Peak-To-Peak	0.0 Volts	FAIL	No or minimal sensor activity detected.
Freq. of AVG	0.0 Hz		
Standard Deviation	0.0 Volts		
# Samples	20		
Additional Notes			



Temperatures - **PASS**

ECT to IAT Comparison	UNDETERMINED	UNDETERMINED	Vehicle is already warmed up, Unable to examine results.
Engine Coolant Temp	186.8 °F	PASS	
Intake Air Temperature	82.4 °F	PASS	
Additional Notes			
Intake Air Temperature	82.4 °F	PASS	
Additional Notes			
Engine Coolant Temperature	186.8 °F	PASS	
Additional Notes			
Transmission Fluid Temperature	278.29 °F		
Additional Notes			



Temperatures (KOER) - **PASS**

Engine Coolant Temperature		PASS	
MIN	186.8 °F	PASS	
MAX	186.8 °F	PASS	
AVG	186.8 °F	PASS	
Peak-To-Peak	0 °F		
Standard Deviation	0 °F		
Additional Notes			
Intake Air Temperature		PASS	
MIN	80.6 °F	PASS	
MAX	80.6 °F	PASS	

Report Details

Test	Value	Result	Note
AVG	80.6 °F	PASS	
Peak-To-Peak	0 °F		
Standard Deviation	0 °F		
Additional Notes			

Transmission Fluid Temperature	136.83 °C		
Additional Notes			

Fuel Trim - PASS

Short Term Fuel Trim B1	9.38 %	PASS	
Additional Notes			

Long Term Fuel Trim B1	0.0 %	PASS	
Additional Notes			

Short Term Fuel Trim B2	9.38 %	PASS	
Additional Notes			

Long Term Fuel Trim B2	0.0 %	PASS	
Additional Notes			

Fuel Trim (KOER) - PASS

Short Term Fuel Trim B1		PASS	
MIN	-3.12 %	PASS	
MAX	2.34 %	PASS	
AVG	-1.06 %	PASS	
Peak-To-Peak	5.46 %	PASS	
Standard Deviation	1.73 %		
Additional Notes			

Short Term Fuel Trim B2		PASS	
MIN	-2.34 %	PASS	
MAX	3.13 %	PASS	
AVG	0.14 %	PASS	
Peak-To-Peak	5.47 %	PASS	
Standard Deviation	1.63 %		
Additional Notes			

Long Term Fuel Trim B1		PASS	
MIN	-2.34 %	PASS	
MAX	-2.34 %	PASS	
AVG	-2.34 %	PASS	
Peak-To-Peak	0.0 %	PASS	
Standard Deviation	0.0 %		
Additional Notes			

Long Term Fuel Trim B2		PASS	
MIN	-3.12 %	PASS	
MAX	-3.12 %	PASS	
AVG	-3.12 %	PASS	
Peak-To-Peak	0.0 %	PASS	
Standard Deviation	0.0 %		

Report Details

Test	Value	Result	Note
Additional Notes			

Fuel/Pressure & Rates - **PASS**

Fuel Tank Levels	17.78	PASS	
Fuel Tank Level (Volts)	2.84 V		
Fuel Tank Level (Percentage)	17.78 %	PASS	
Displayed Fuel Tank Level Remaining	NOT SUPPORTED	NOT SUPPORTED	NOT SUPPORTED
Additional Notes			

Load/Torque - **NOT GRADED**

Calculated Load Value	0 %		
Additional Notes			
Engine Torque	59.66 N-m		
Additional Notes			

Load/Torque (KOER) - **NOT GRADED**

Calculated Load Value			
MIN	33.33 %		
MAX	38.04 %		
AVG	35.54 %		
Peak-To-Peak	4.71 %		
Standard Deviation	1.31 %		
Additional Notes			
Engine Torque			
MIN	59.66 N-m		
MAX	59.66 N-m		
AVG	59.66 N-m		
Peak-To-Peak	0.0 N-m		
Standard Deviation	0.0 N-m		
# Samples	14		
Additional Notes			

Throttle/Accelerator - **PASS**

Absolute Throttle Position - Full Throttle Test			
MAX	19.61 %		
Additional Notes			
Absolute Throttle Position	19.61 %	PASS	
Additional Notes			

Transmission - **FAIL**

TCC System	13.82	FAIL	
TCC Slip Speed	NOT SUPPORTED	NOT SUPPORTED	
TCC Duty Cycle	13.82 %	FAIL	
Additional Notes			

Report Details

Test	Value	Result	Note
4WD Information			
4WD Low Signal	Off		
4WD Signal	NOT SUPPORTED	NOT SUPPORTED	
Additional Notes			

Transmission (KOER) - NOT GRADED

TCC System			
TCC Duty Cycle	13.82 %	FAIL	
TCC Slip Speed	NOT SUPPORTED	NOT SUPPORTED	
Additional Notes			

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