





2005 TOYOTA 4RUNNER LIMITED 4.7 V8 (-) GAS



Very Good

■ Report Summary		
Report Name	VehicleMRI Complete	
Report Number	348	
Report Time	02/02/2012 4:06 PM	
Performed By	John Smith	
Company ID	55	

Vehicle Information		
VIN	JTEBT14R058022292	
Year	2005	
Make	TOYOTA	
Model	4RUNNER	
Engine	4.7 V8 (-)	
Odometer	120784	
Vehicle ID		

Other Summary		
Items Checked	284	
Duration	06:34 (Min:Sec)	
Device	EVI-6	
Firmware Version	EVI6_01_	
Script Version	13	
Applet Version	1.0.0.12	
Database Version	1/9/2012	

■ Category Details			
Category	Overall	Key On	Engine Running
Report Preconditions	O PASS	PASS	O PASS
□ Vehicle Information	O PASS	O PASS	■ N/A
	O PASS	PASS	■ N/A
Battery	COND FAIL	O PASS	COND FAIL
Powertrain Misc.	≭ FAIL	O PASS	× FAIL
Oxygen Sensors	≭ FAIL	O PASS	× FAIL
Evaporative System	× FAIL	≭ FAIL	O PASS
Temperatures	≭ FAIL	≭ FAIL	≭ FAIL
🖺 Fuel Trim	O PASS	O PASS	O PASS
Fuel/Pressure & Rates	NOT SUPPORTED	NOT SUPPORTED	NOT SUPPORTED
	NOT GRADED	NOT GRADED	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



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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Script Version	13	
Applet Version	1.0.0.12	
Database Version	1/9/2012	

CRITICAL ALERTS: NONE

Cross count
Additional Notes

CRITICAL ALERTS: NON	IE .		
Failed Items Details			
Test	Value	Result	Note
Battery (KOEF	R) - COND F	AIL	
Lowest Battery Voltage During Crank	5.59 V	COND FAIL	Battery is getting too weak to effectively start engine. Perform appropriate battery load and starter tests to confirm.
Additional Notes			
Powertrain Mi	sc. (KOER)	- FAIL	
MAF Analysis		FAIL	
AVG	4.92 gm/s	FAIL	Airflow is too low
Additional Notes			
Oxygen Senso	ors (KOER)	- FAIL	
O2 Bank 1 Sensor 2 (\$13)		COND FAIL	
MIN	0.43 Volts	COND FAIL	O2 Sensor has not reported a LEAN state. Sensor may still be ok, perform approprate diagnostic tests to determine sensor condition.
MAX	0.45 Volts	COND FAIL	O2 Sensor has not reported a RICH state. Sensor may still be ok, perform approprate diagnostic tests to determine sensor condition.
Peak-To-Peak	0.02 Volts	COND FAIL	No or minimal sensor activity detected.
Additional Notes			
O2 Bank 2 Sensor 2 (\$13)		COND FAIL	
MIN	0.45 Volts	COND FAIL	O2 Sensor has not reported a LEAN state. Sensor may still be ok, perform approprate diagnostic tests to determine sensor condition.
MAX	0.47 Volts	COND FAIL	O2 Sensor has not reported a RICH state. Sensor may still be ok, perform approprate diagnostic tests to determine sensor condition.
Peak-To-Peak	0.02 Volts	COND FAIL	No or minimal sensor activity detected.
Additional Notes			
Wide Range O2 Bank 1 Sensor 1 (\$13)		FAIL	
MIN	3.19 Volts	FAIL	O2 Sensor has not reported a RICH state
MAX	3.29 Volts	FAIL	O2 Sensor has not reported a LEAN state.
Freq. of AVG	0.8 Hz	FAIL	O2 sensor is switching too slow
Cross count	0	FAIL	O2 Sensor failed to switch

Value	Result	Note
	FAIL	
3.18 Volts	FAIL	O2 Sensor has not reported a RICH state
3.35 Volts	FAIL	O2 Sensor has not reported a LEAN state.
0.4 Hz	FAIL	O2 sensor is switching too slow
1	FAIL	O2 sensor is switching too slow. Lazy O2
ystem - FAI	L	
384.8 in H2O	FAIL	Pressure is too High
- FAIL		
63 °F	FAIL	Too big a difference between ECT and IAT
(KOER) - F	AIL	
	FAIL	
389.52 °F	FAIL	Failed to reach proper operating temperature
	FAIL	
405.59 °F	FAIL	Failed to reach proper operating temperature
	3.18 Volts 3.35 Volts 0.4 Hz 1 ystem - FAI 384.8 in H2O - FAIL 63 °F (KOER) - F	FAIL 3.18 Volts FAIL 3.35 Volts FAIL 1 FAIL 1 FAIL 384.8 in H2O FAIL (KOER) - FAIL FAIL FAIL FAIL FAIL FAIL

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E Daniert Dataile			
Report Details			
Test	Value	Result	Note
Report Precon	iditions - PASS		
Preconditions		PASS	All Procedure Preconditions PASSED
Engine Speed (Generic)	0.0 RPM		
Additional Notes	Engine Speed should be	0 RPM	'
Report Precon	ditions (KOER)	- PASS	
	iditions (NOEIX)		
Extended KOER Preconditions		PASS	All Procedure Preconditions PASSED
Engine Coolant Temp	140.0 Deg F		
Vehicle Speed	0.0 mph		
Engine Speed (Generic)	809.0 RPM		
Fuel System 1	CLOSED LOOP		
Fuel System 2	CLOSED LOOP		
Additional Notes			d 825 RPM and Coolant Temp. over 140 deg F but not over 225 deg Loop Status must be in CLOSED LOOP.
Vehicle Inform	nation - PASS		
Mode \$09 - VIN		PASS	Valid VIN(s) retrieved matches entered VIN
ECM	JTEBT14R058022292	PASS	Valid VIN(s) retrieved matches entered VIN
Additional Notes			
Mode \$09 - CALID's			
ECM	33532100		
Additional Notes			
A MIL / DTO / IM	/ Deals I indete	DAGG	
MIL/DIC/IM	/ Dash Lights -	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	0	PASS	NO ETHISSIONS Telated ETHOL Codes detected.
	0	DACC	All Commanded Manifesta and Committee
IM Readiness Status	0	PASS	All Supported Monitors are Complete
Misfire	COMPLETE	PASS	
Fuel System	COMPLETE	PASS	
Comprehensive component	COMPLETE	PASS	
Catalyst	COMPLETE	PASS	
Heated Catalyst	NOT SUPPORTED	NOT SUPPORTED	NOT SUPPORTED
Evaporative System	COMPLETE	PASS	
Secondary Air System	COMPLETE	PASS	
Oxygen Sensor	COMPLETE	PASS	
Oxygen Sensor Heater	NOT SUPPORTED	NOT SUPPORTED	NOT SUPPORTED

Test	Value	Result	Note
EGR System	NOT SUPPORTED	NOT SUPPORTED	NOT SUPPORTED
Additional Notes			
	DAGG	D400	W
Emissions Readiness	PASS	PASS	If you register this vehicle in a state/county with an emissions inspection program, this vehicle should PASS the Emissions tes
Additional Notes			
OBD Support Level	OBD II (California ARB)		
Additional Notes			
Freeze Frame	NO	PASS	No Freeze Frame Data Present.
Additional Notes			
Commanded Secondary AIR Status	UNUSED		
Additional Notes			
Distance Traveled While MIL was Activated	0 mi	PASS	
Additional Notes			
	100.0	DACC	Vahiala haa warmad ur mana than 40 times aline a DTO
Number of Warm-Ups Since DTC Clear	109.0	PASS	Vehicle has warmed up more than 10 times since DTCs were cleared
Additional Notes			
Distance Since DTC Clear	1018.43 mi	PASS	Vehicle has been driven more than 50 miles since DTCs were cleared.
Additional Notes			
Minutes Engine Ran While MIL is Activated	0.0 min	PASS	
Additional Notes			
Time Since DTC was Cleared	1551.0 min	PASS	Vehicle has been driven for more than 60 minutes with no DTCs
Additional Notes			
Battery - PASS)		
Battery Voltage (No Load)		PASS	
MIN	11.68 Volts	PASS	
MAX	11.78 Volts		
AVG	11.72 Volts	PASS	
Peak-To-Peak	0.1 Volts		
Standard Deviation	0.02 Volts		
Additional Notes			
Battery Voltage Under Load		PASS	
MIN	10.65 Volts	PASS	
MAX	11.49 Volts		
AVG	11.31 Volts	PASS	
Peak-To-Peak	0.84 Volts		
Standard Deviation	0.06 Volts		
Additional Notes			
Control Module Voltage	11.62 Volts	PASS	Voltage is within normal range
Additional Notes			
Highest Voltage Since	15.02 Volts	PASS	

Report Details			
Test	Value	Result	Note
Additional Notes			
Battery (KOE	R) - COND FA	IL	
Battery Voltage (No Load); Alternator		PASS	
MIN	13.86 Volts	PASS	
MAX	14.19 Volts		
AVG	14.07 Volts	PASS	
Standard Deviation	0.05 Volts		
Additional Notes			
Battery Voltage (Under Load); Alternator		PASS	
MIN	12.72 Volts	PASS	
MAX	14.15 Volts	PASS	
AVG	13.75 Volts	PASS	Voltage is within normal range.
Peak-To-Peak	1.43 Volts	PASS	
Standard Deviation	0.41 Volts		
Additional Notes			
Control Module Voltage		PASS	
MIN	13.79 Volts	PASS	
MAX	13.83 Volts	PASS	
AVG	13.81 Volts	PASS	Voltage is within normal range.
Peak-To-Peak	0.04 Volts	PASS	, and the second
Standard Deviation	0.01 Volts		
Additional Notes			
Lowest Battery Voltage During Crank	5.59 V	COND FAIL	Battery is getting too weak to effectively start engine. Perform appropriate battery load and starter tests to confirm.
Additional Notes			
Powertrain M	isc PASS		
Engine Speed	0.0 RPM	PASS	
Additional Notes			
MAE Analysis	1 E1 am/o		
MAF Analysis Additional Notes	1.51 gm/s		
Baro Pressure	28.05 in Hg	PASS	Should be atmospheric pressure, about 29.50 in Hg depending on altitude and weather conditions.
Additional Notes			
Vehicle Speed Sensor	0 mph		
Additional Notes			
Ignition Timing Advance for Cylinder 1	5.0 deg		
Additional Notes			
Powertrain M	isc. (KOER) -	FAIL	
Engine Speed	, ,	PASS	
MIN	680.0 RPM	PASS	
MAX	719.0 RPM	PASS	

Report Details			
Test	Value	Result	Note
AVG	698.68 RPM	PASS	Within normal idle range
Peak-To-Peak	39.0 RPM	PASS	The engine is running smoothly
Standard Deviation	7.09 RPM		
Additional Notes			
MAF Analysis		FAIL	
MIN	4.67 gm/s	PASS	
MAX	5.07 gm/s	PASS	
AVG	4.92 gm/s	FAIL	Airflow is too low
Peak-To-Peak	0.4 gm/s	PASS	Airflow is Stable
Standard Deviation	0.06 gm/s		
Additional Notes			
		PASS	
Baro Pressure	20 0F in LIE		
MIN	28.05 in Hg	PASS	
MAX	28.05 in Hg	PASS	Chauld be atmospheric reserved that 00 50 to 11 days "
AVG	28.05 in Hg	PASS	Should be atmospheric pressure, about 29.50 in Hg depending on altitude and weather conditions.
Peak-To-Peak	0 in Hg		
Standard Deviation	0 in Hg		
Additional Notes			
Ignition Timing Advance for Cylinder 1			
MIN	13.0 deg		
MAX	13.5 deg		
AVG	13.04 deg		
Peak-To-Peak	0.5 deg		
Standard Deviation	0.13 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			
Oxygen Sense	ors - PASS		
O2 Locations	38V-2SD	PASS	
\$13 Location of O2 Sensors	33		
\$1D Location of O2 Sensors	NOT SUPPORTED	NOT SUPPORTED	
Additional Notes			
Fuel/Air Commanded Equivalence Ratio	0.784		
Additional Notes			
O2 Sensor Voltage (Location \$13)			
\$13, \$1D - O2 Volts, B1 S1	NOT SUPPORTED	NOT SUPPORTED	

Test	Value	Result	Note
\$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	NOT SUPPORTED	NOT SUPPORTED	
\$13 O2 Volts, B2 S2	0.0 V		
\$13 O2 Volts, B2 S3	NOT SUPPORTED	NOT SUPPORTED	
\$13 O2 Volts, B2 S4	NOT SUPPORTED	NOT SUPPORTED	
Additional Notes			
/ide Range O2 Sensor oltage (Location \$13)			
WR O2 Volts, B1 S1	3.29 V		
WR O2 Volts, B1 S2	NOT SUPPORTED	NOT SUPPORTED	
WR O2 Volts, B1 S3	NOT SUPPORTED	NOT SUPPORTED	
WR O2 Volts, B1 S4	NOT SUPPORTED	NOT SUPPORTED	
WR O2 Volts, B2 S1	3.29 V		
WR O2 Volts, B2 S2	NOT SUPPORTED	NOT SUPPORTED	
WR O2 Volts, B2 S3	NOT SUPPORTED	NOT SUPPORTED	
WR O2 Volts, B2 S4	NOT SUPPORTED	NOT SUPPORTED	
Additional Notes			

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			
2 Bank 1 Sensor 2 (\$13)		COND FAIL	
MIN	0.43 Volts	COND FAIL	O2 Sensor has not reported a LEAN state. Sensor may still be ok, perform approprate diagnostic tests to determine sensor condition
MAX	0.45 Volts	COND FAIL	O2 Sensor has not reported a RICH state. Sensor may still be ok, perform approprate diagnostic tests to determine sensor condition
AVG	0.45 Volts	PASS	
Peak-To-Peak	0.02 Volts	COND FAIL	No or minimal sensor activity detected.
Freq. of AVG	0.1 Hz		
Cross count	0		
Standard Deviation	0.01 Volts		
Lean to Rich Switch Time (Average)	UNDETERMINED		
Rich to Lean Switch Time (Average)	UNDETERMINED		
# Samples	155		
O2 Histo - Lean	0.0 %		
O2 Histo - Center Lean	0.0 %		
O2 Histo - Center	100.0 %		
O2 Histo - Center Rich	0.0 %		
O2 Histo - Rich	0.0 %		
Additional Notes			

COND FAIL

COND FAIL

O2 Sensor has not reported a LEAN state. Sensor may still be ok, perform approprate diagnostic tests to determine sensor condition.

O2 Bank 2 Sensor 2 (\$13)

0.45 Volts

MIN

Report Details			
Test	Value	Result	Note
MAX	0.47 Volts	COND FAIL	O2 Sensor has not reported a RICH state. Sensor may still be ok, perform approprate diagnostic tests to determine sensor condition.
AVG	0.46 Volts	PASS	
Peak-To-Peak	0.02 Volts	COND FAIL	No or minimal sensor activity detected.
Freq. of AVG	0.1 Hz		
Cross count	0		
Standard Deviation	0.01 Volts		
Lean to Rich Switch Time (Average)	UNDETERMINED		
Rich to Lean Switch Time (Average)	UNDETERMINED		
# Samples	156		
O2 Histo - Lean	0.0 %		
O2 Histo - Center Lean	0.0 %		
O2 Histo - Center	100.0 %		
O2 Histo - Center Rich	0.0 %		
O2 Histo - Rich	0.0 %		
Additional Notes			
de Range O2 Bank 1 nsor 1 (\$13)		FAIL	
MIN	3.19 Volts	FAIL	O2 Sensor has not reported a RICH state
MAX	3.29 Volts	FAIL	O2 Sensor has not reported a LEAN state.
AVG	3.24 Volts		
Peak-To-Peak	0.1 Volts	PASS	
Freq. of AVG	0.8 Hz	FAIL	O2 sensor is switching too slow
Cross count	0	FAIL	O2 Sensor failed to switch
Standard Deviation	0.02 Volts		
Rich to Lean Switch Time (Average)	UNDETERMINED ms	PASS	
Lean to Rich Switch Time (Average)	UNDETERMINED ms	PASS	
# Samples	155		
O2 Histo - Lean	0.0 %		
O2 Histo - Center Lean	0.0 %		
O2 Histo - Center	100.0 %		
O2 Histo - Center Rich	0.0 %		
O2 Histo - Rich	0.0 %		
Additional Notes			
de Range O2 Bank 2 nsor 1 (\$13)		FAIL	
MIN	3.18 Volts	FAIL	O2 Sensor has not reported a RICH state
MAX	3.35 Volts	FAIL	O2 Sensor has not reported a LEAN state.
AVG	3.25		
Peak-To-Peak	0.17 Volts	PASS	
Freq. of AVG	0.4 Hz	FAIL	O2 sensor is switching too slow
Cross count	1	FAIL	O2 sensor is switching too slow. Lazy O2
Standard Deviation	0.04		
Rich to Lean Switch Time (Average)	UNDETERMINED ms	PASS	
Lean to Rich Switch Time (Average)	UNDETERMINED ms	PASS	
# Samples	158		

Report Details			
Test	Value	Result	Note
O2 Histo - Lean	0.0 %		
O2 Histo - Center Lean	0.0 %		
O2 Histo - Center	100.0 %		
O2 Histo - Center Rich	0.0 %		
O2 Histo - Rich	0.0 %		
Additional Notes			
uel/Air Commanded quivalence Ratio			
MIN	1.0		
MAX	1.0		
AVG	1.0		
Peak-To-Peak	0.0		
Standard Deviation	0.0		
Additional Notes			
quivalence Ratio - Bank Sensor 1 (\$13)			
MIN	0.99		
MAX	1.01		
AVG	1.0		
Freq. of AVG	0.6		
Cross count	0		
Standard Deviation	0.0		
Lean to Rich Switch Time (Average)	UNDETERMINED		
Rich to Lean Switch Time (Average)	UNDETERMINED		
# Samples	155		
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			
quivalence Ratio - Bank Sensor 1 (\$13)			
MIN	0.99 V		
MAX	1.01 V		
AVG	1.0 V		
Freq. of AVG	0.6 Hz		
Cross count	0		
Standard Deviation	0.0 V		
Lean to Rich Switch Time (Average)	UNDETERMINED		
Rich to Lean Switch Time (Average)	UNDETERMINED		
# Samples			
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 %		

Report Details			
Test	Value	Result	Note
Additional Notes			
- Evaporativa C	votom EAII		
Evaporative Sy	ystem - FAIL		
Commanded Evaporative Purge	0.0 %	PASS	
Additional Notes			
Absolute Evap System Vapor Pressure	384.8 in H2O	FAIL	Pressure is too High
Additional Notes		'	
Evaporative Sy	vstem (KOFR)	- PASS	
	yotom (ROZIK)		
Commanded Evaporative Purge		PASS	
MIN	0.0 %		
MAX	0.0 %		
AVG	0.0 %	PASS	
Peak-To-Peak	0.0 %		
Standard Deviation	0.0 %		
Additional Notes			
Absolute Evap System Vapor Pressure			
MIN	384.7 psig		
MAX	385.06 psig		
AVG	UNDETERMINED	UNDETERMINED	
Peak-To-Peak	0.36 psig		
Standard Deviation	0.08 psig		
Additional Notes			
Temperatures	- FAIL		
Engine Coolant Temperature	118.4 °F	PASS	
Additional Notes			
Intake Air Temperature	55.4 °F	PASS	
Additional Notes		1 1 1 2 2	
ECT to IAT Comparison	63 °F	FAIL	Too big a difference between ECT and IAT
Engine Coolant Temp	118.4 °F	PASS	Too big a unierence between LoT and IAT
Intake Air Temperature	55.4 °F	PASS	
Additional Notes	55.4 1	1 400	
Catalyst Temperature Bank 1 Sensor 1	760.64 °F	PASS	
Additional Notes			
Catalyst Temperature Bank 1 Sensor 2	275.9 °F	PASS	
Additional Notes			
Catalyst Temperature Bank 2 Sensor 1	760.64 °F	PASS	
Additional Notes		<u> </u>	
'	'		

Report Details			
Test	Value	Result	Note
Catalyst Temperature Bank 2 Sensor 2 Additional Notes	275.9 °F	PASS	
Additional Notes			
Temperature	s (KOER) - FA	IL	
Engine Coolant		PASS	
Temperature MIN	140 °F	PASS	
MAX	140 °F	PASS	
AVG	140 °F	PASS	
Peak-To-Peak	0 °F	FAGG	
Standard Deviation	0 °F		
Additional Notes	0 1		
Intake Air Temperature		PASS	
MIN	46.4 °F	PASS	
MAX	46.4 °F	PASS	
AVG		PASS	
Peak-To-Peak	0 °F		
Standard Deviation	0 °F		
Additional Notes			
Catalyst Temperature Bank 1 Sensor 1		PASS	
MIN	726.26 °F	PASS	
MAX	739.04 °F	PASS	
AVG	732.94 °F	PASS	Within normal operating temperature
Peak-To-Peak	12.78 °F		
Standard Deviation	3.58 °F		
Additional Notes			
Catalyst Temperature Bank 1 Sensor 2		FAIL	
MIN	385.16 °F	PASS	
MAX	393.44 °F	PASS	
AVG	389.52 °F	FAIL	Failed to reach proper operating temperature
Peak-To-Peak	8.28 °F		
Standard Deviation	2.39 °F		
Additional Notes			
Catalyst Temperature Bank 2 Sensor 1		PASS	
MIN	750.56 °F	PASS	
MAX	761.18 °F	PASS	
AVG	756.16 °F	PASS	Within normal operating temperature
Peak-To-Peak	10.62 °F		
Standard Deviation	2.99 °F		
Additional Notes			
Catalyst Temperature Bank 2 Sensor 2		FAIL	
MIN	401.54 °F	PASS	
MAX	409.28 °F	PASS	
AVG	405.59 °F	FAIL	Failed to reach proper operating temperature
/.vo	100.00	· ALL	- and to readil proper operating temperature

Test	Value	Result	Note
Peak-To-Peak	7.74 °F		
Standard Deviation	2.18 °F		
Additional Notes			
Fuel Trim - P	ASS		
Short Term Fuel Trim B1	0.0 %	PASS	
Additional Notes			
Long Term Fuel Trim B1	-4.69 %	PASS	
Additional Notes			
Short Term Fuel Trim B2	0.0 %	PASS	
Additional Notes		·	
Long Term Fuel Trim B2	-3.91 %	PASS	
Additional Notes			
Eugl Trim (KC	NED) DACC		
Fuel Trim (KC	JEK) - PA33		
Short Term Fuel Trim B1		PASS	
MIN	0.78 %	PASS	
MAX	2.34 %	PASS	
AVG	1.78 %	PASS	
Peak-To-Peak	1.56 %	PASS	
Standard Deviation	0.5 %		
Additional Notes			
Long Term Fuel Trim B1		PASS	
MIN	-3.91 %	PASS	
MAX	-3.12 %	PASS	
AVG	-3.22 %	PASS	
Peak-To-Peak	0.79 %	PASS	
Standard Deviation	0.26 %		
Additional Notes			
Short Term Fuel Trim B2		PASS	
MIN	0.78 %	PASS	
MAX	1.56 %	PASS	
AVG	1.21 %	PASS	
Peak-To-Peak	0.78 %	PASS	
Standard Deviation	0.39 %		
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 %		
Additional Notes			
Load/Torque	- NOT GRADE	D	
Calculated Load Value	0.0 %		

Report Details			
Test	Value	Result	Note
Additional Notes			
Absolute Load Value	0.0 %		
Additional Notes			
Load/Torque (KOER) - NOT O	RADED	
	KOLK) - NOT C	BRADED	
Calculated Load Value			
MIN	16.08 %		
MAX	18.43 %		
AVG	17.58 %		
Peak-To-Peak	2.35 %		
Standard Deviation	0.43 %		
Additional Notes			
Absolute Load Value			
MIN	16.07 %		
MAX	18.03 %		
AVG	17.33 %		
Peak-To-Peak	1.96 %		
Standard Deviation	0.29 %		
Additional Notes			
Throttle/Accel	erator - PASS		
bsolute Throttle osition	19.61 %	PASS	
Additional Notes			
ccelerator Pedal			
Absolute Throttle Position	52.14 %		
Absolute Throttle Position C	NOT SUPPORTED	NOT SUPPORTED	
Absolute Throttle Position D	15.68 %		
Absolute Throttle Position E	31.75 %		
Absolute Throttle Position F	NOT SUPPORTED	NOT SUPPORTED	
Additional Notes			
Relative Throttle Postion	0.78 %	PASS	
Additional Notes			
Absolute Throttle Position Full Throttle Test			
MAX	83.14 %		
Additional Notes			
Relative Throttle Position -			
MAX	63.5 %		
Additional Notes	55.0 70		
Commanded Throttle	19.6 %		
Actuator Control			
Additional Notes			

Report Details			
Test	Value	Result	Note

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