



VehicleMRI™



2000 BUICK LESABRE 3.8 V6 (K) GAS

A

Excellent

Report Summary	
Report Name	VehicleMRI Complete+
Report Number	606
Report Time	03/15/2012 3:22 PM
Performed By	Erik Horn
Company ID	55

Vehicle Information	
VIN	1G4HR54K5Y5YU2201
Year	2000
Make	BUICK
Model	LESABRE
Engine	3.8 V6 (K)
Odometer	101468
Vehicle ID	RWBuick

Other Summary	
Items Checked	310
Duration	03:06 (Min:Sec)
Device	EVI-6
Firmware Version	EVI6_01_
Script Version	1
Applet Version	1.0.0.15
Database Version	3/7/2012

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 GRADED	NOT GRADED	NOT SUPPORTED
Temperatures	✗ FAIL	✗ FAIL	✓ PASS
Fuel Trim	✓ PASS	✓ PASS	✓ PASS
Fuel/Pressure & Rates	NOT GRADED	NOT GRADED	NOT GRADED
Load/Torque	NOT GRADED	NOT GRADED	NOT GRADED
Throttle/Accelerator	✓ PASS	✓ PASS	N/A
Misfire / Injectors	✓ PASS	✓ PASS	✓ PASS
Transmission	✗ FAIL	✗ FAIL	✓ PASS
ABS / Airbag	N/A	NOT SUPPORTED	N/A
Body Misc.	N/A	NOT SUPPORTED	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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<http://www.vehiclemri.com>



Failed Items Details

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Script Version	1
Applet Version	1.0.0.15
Database Version	3/7/2012

CRITICAL ALERTS: NONE

Failed Items Details

Test	Value	Result	Note
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MIL / DTC / IM / Dash Lights - **FAIL**

MIL	ON	FAIL	Check for DTCs and repair issues.
Additional Notes			

GM Enhanced DTC Scan	1	FAIL	
Engine Control Module (10)	P1546	FAIL	
Additional Notes			

Non-Continuous Monitors (Mode \$06)	3	FAIL	One or more tests have failed. Use a Diagnostic tool for details.
Additional Notes			

Oxygen Sensors (KOER) - **FAIL**

O2 Bank 1 Sensor 2 (\$13)		COND FAIL	
MIN	0.61 Volts	COND FAIL	O2 Sensor has not reported a LEAN state. Sensor may still be ok, perform appropriate diagnostic tests to determine sensor condition.
MAX	0.63 Volts	COND FAIL	O2 Sensor has not reported a RICH state. Sensor may still be ok, perform appropriate diagnostic tests to determine sensor condition.
Peak-To-Peak	0.02 Volts	COND FAIL	No or minimal sensor activity detected.
Additional Notes			

HO2 Bank 1 Sensor 1 Voltage		FAIL	
MAX	0.67 Volts	FAIL	O2 Sensor has not reported a RICH state.
Additional Notes			

HO2 Bank 1 Sensor 2 Voltage		FAIL	
MIN	0.67 Volts	FAIL	O2 Sensor has not reported a LEAN state
MAX	0.69 Volts	FAIL	O2 Sensor has not reported a RICH state.
Peak-To-Peak	0.02 Volts	FAIL	No or minimal sensor activity detected.
Additional Notes			

Temperatures - **FAIL**

ECT to IAT Comparison	19.8 °F	FAIL	Difference between ECT and IAT is too large.
Additional Notes			

 **Failed Items Details**

Test	Value	Result	Note
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 **Transmission - FAIL**

Shift Errors	0.3	FAIL	
2-3 SHIFT ERRORS	0.3 s	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	ON	FAIL	Check for DTCs and repair issues.
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			

GM Enhanced DTC Scan	1	FAIL	
Restraint Controller(58)	0	PASS	
Entertainment Module(80)	0	PASS	
Brake Controller(28)	0	PASS	
Driver Information Module (60)	0	PASS	
Body Controller(41)	0	PASS	
Convenience Module(a0)	0	PASS	
Convenience Module(b0)	0	PASS	
Security Module(c0)	0	PASS	
Body Controller(42)	0	PASS	
Engine Control Module (10)	P1546	FAIL	
Body Controller(40)	0	PASS	
Additional Notes			

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	

Report Details

Test	Value	Result	Note
Oxygen Sensor Heater	COMPLETE	PASS	
EGR System	COMPLETE	PASS	
Additional Notes			
Non-Continuous Monitors (Mode \$06)	3	FAIL	One or more tests have failed. Use a Diagnostic tool for details.
MODE06	CHECKED : 18		
MODE06	PASS : 15		
MODE06	FAIL : 3		
MODE06	INCOMPLETE : 0		
Additional Notes			
Commanded Secondary AIR Status	Atmosphere/OFF		
Additional Notes			
OBD Support Level	OBD II (California ARB)		
Additional Notes			
Emissions Readiness	PASS	PASS	If you register this vehicle in a state/county with an emissions inspection program, this vehicle should PASS the Emissions test.
Additional Notes			

Battery - PASS

Battery Voltage Under Load		PASS	
MIN	11.95 Volts	PASS	
MAX	12.05 Volts		
AVG	11.99 Volts	PASS	
Peak-To-Peak	0.1 Volts		
Standard Deviation	0.02 Volts		
Additional Notes			
Highest Voltage Since Power Up	14.85 Volts	PASS	
Additional Notes			
Battery Voltage (No Load)		PASS	
MIN	12.12 Volts	PASS	
MAX	12.18 Volts	PASS	
AVG	12.15 Volts	PASS	Voltage is within normal range
Peak-To-Peak	0.06 Volts		
Standard Deviation	0.01 Volts		
Additional Notes			

Battery (KOER) - PASS

Lowest Battery Voltage During Crank	9.44 V	PASS	
Additional Notes			
Battery Voltage (Under Load); Alternator		PASS	
MIN	14.27 Volts	PASS	
MAX	14.52 Volts	PASS	
AVG	14.39 Volts	PASS	Voltage is within normal range.

Report Details

Test	Value	Result	Note
Peak-To-Peak	0.25 Volts	PASS	
Standard Deviation	0.05 Volts		
Additional Notes			

Battery Voltage (No Load); Alternator		Result	Note
MIN	14.41 Volts	PASS	
MAX	14.6 Volts	PASS	
AVG	14.5 Volts	PASS	
Peak-To-Peak	0.19 Volts	PASS	
Standard Deviation	0.04 Volts		
Additional Notes			

Powertrain Misc. - PASS

Engine Speed	Value	Result	Note
Engine Speed	0.0 RPM	PASS	
Additional Notes			

Vehicle Speed Sensor	Value	Result	Note
Vehicle Speed Sensor	0 mph	PASS	
Additional Notes			

Manifold Absolute Pressure	Value	Result	Note
Manifold Absolute Pressure	28.94 in Hg		
Additional Notes			

MAF Analysis	Value	Result	Note
MAF Analysis	0.0 gm/s		
Additional Notes			

Engine Vacuum	Value	Result	Note
Engine Vacuum	0.98 in Hg		
Additional Notes			

Ignition Timing Advance for Cylinder 1	Value	Result	Note
Ignition Timing Advance for Cylinder 1	0.0 deg		
Additional Notes			

Oil Pressure	Value	Result	Note
Oil Pressure	4.57 V		
Additional Notes			

Fluid Levels	Value	Result	Note
Fluid Levels	OK	PASS	Oil Level is OK
Additional Notes			

Injector Circuit Status			
Cylinder 1 Injector Circuit Status	FAULT		
Cylinder 2 Injector Circuit Status	FAULT		
Cylinder 3 Injector Circuit Status	FAULT		
Cylinder 4 Injector Circuit Status	FAULT		
Cylinder 5 Injector Circuit Status	FAULT		
Cylinder 6 Injector Circuit Status	FAULT		
Additional Notes			

A/C Compressor Circuit Tests	Value	Result	Note
A/C Compressor Circuit Tests	NO		
Additional Notes			

Report Details

Test	Value	Result	Note
EGR Position			
Actual EGR Position	0.39 %		
Desired EGR Position	0.0 %		
Additional Notes			

Powertrain Misc. (KOER) - PASS

Engine Speed			
MIN	648.0 RPM	PASS	
MAX	673.0 RPM	PASS	
AVG	660.54 RPM	PASS	Within normal idle range
Peak-To-Peak	25.0 RPM	PASS	The engine is running smoothly
Standard Deviation	5.04 RPM		
Additional Notes			

Desired Idle Speed			
Desired Idle Speed	625.0 RPM		
Engine Speed	658.75 RPM		
Additional Notes			

MAF Analysis			
MIN	4.41 gm/s	PASS	
MAX	4.49 gm/s	PASS	
AVG	4.46 gm/s	PASS	
Peak-To-Peak	0.08 gm/s	PASS	Airflow is Stable
Standard Deviation	0.01 gm/s		
# Samples			
Additional Notes			

Oil Pressure			
MIN	4.57 V		
MAX	4.59 V		
AVG	4.57 V		
Peak-To-Peak	0.02 V		
Standard Deviation	0 V		
# Samples	15		
Additional Notes			

Manifold Absolute Pressure			
MIN	10.93 in Hg	PASS	
MAX	11.22 in Hg	PASS	
AVG	11.06 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	0.15 in Hg		
Additional Notes			

Ignition Timing Advance for Cylinder 1			
MIN	23.0 deg		
MAX	23.0 deg		
AVG	23.0 deg		
Peak-To-Peak	0.0 deg		
Standard Deviation	0.0 deg		

Report Details

Test	Value	Result	Note
Additional Notes			
Engine Vacuum		PASS	
MIN	18.7 in Hg	PASS	
MAX	18.99 in Hg	PASS	
AVG	18.89 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	1.4 Hz		
Standard Deviation	0.14 in Hg		
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 Sensors - **PASS**

O2 Locations	36V-1S	PASS	
\$13 Location of O2 Sensors	3		
\$1D Location of O2 Sensors	NOT SUPPORTED	NOT SUPPORTED	
Additional Notes			

O2 Sensor Voltage (Location \$13)			
\$13, \$1D - O2 Volts, B1 S1	0.17 V		
\$13, \$1D - O2 Volts, B1 S2	0.08 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	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	CLOSED LOOP	PASS	
Fuel System 1	CLOSED LOOP	PASS	Closed loop: using oxygen sensor(s) as feedback for fuel control
Fuel System 2	NOT USED		
Additional Notes			

O2 Bank 1 Sensor 1 (\$13)		PASS	
MIN	0.11 Volts	PASS	

Report Details

Test	Value	Result	Note
MAX	0.84 Volts	PASS	
AVG	0.54 Volts	PASS	
Peak-To-Peak	0.73 Volts	PASS	
Freq. of AVG	0.7 Hz	PASS	
Cross count	15	PASS	
Standard Deviation	0.25 Volts		
Lean to Rich Switch Time (Average)	246.0 ms	PASS	
Rich to Lean Switch Time (Average)	175.83 ms	PASS	
# Samples	77		
O2 Histo - Lean	13.5 %		
O2 Histo - Center Lean	12.62 %		
O2 Histo - Center	18.54 %		
O2 Histo - Center Rich	43.29 %		
O2 Histo - Rich	12.05 %		
Additional Notes			
O2 Bank 1 Sensor 2 (\$13)		COND FAIL	
MIN	0.61 Volts	COND FAIL	O2 Sensor has not reported a LEAN state. Sensor may still be ok, perform appropriate diagnostic tests to determine sensor condition.
MAX	0.63 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	0.62 Volts	PASS	
Peak-To-Peak	0.02 Volts	COND FAIL	No or minimal sensor activity detected.
Freq. of AVG	0.3 Hz		
Cross count	0		
Standard Deviation	0.01 Volts		
Lean to Rich Switch Time (Average)	UNDETERMINED		
Rich to Lean Switch Time (Average)	UNDETERMINED		
# Samples	77		
O2 Histo - Lean	0.0 %		
O2 Histo - Center Lean	0.0 %		
O2 Histo - Center	0.0 %		
O2 Histo - Center Rich	100.0 %		
O2 Histo - Rich	0.0 %		
Additional Notes			
HO2 Bank 1 Sensor 1 Voltage		FAIL	
MIN	0.06 Volts	PASS	
MAX	0.67 Volts	FAIL	O2 Sensor has not reported a RICH state.
AVG	0.29 Volts	PASS	
Peak-To-Peak	0.61 Volts	PASS	
Freq. of AVG	0.33 Hz		
Standard Deviation	0.23 Volts		
# Samples	21		
Additional Notes			
HO2 Bank 1 Sensor 2 Voltage		FAIL	
MIN	0.67 Volts	FAIL	O2 Sensor has not reported a LEAN state

Report Details

Test	Value	Result	Note
MAX	0.69 Volts	FAIL	O2 Sensor has not reported a RICH state.
AVG	0.68 Volts	PASS	
Peak-To-Peak	0.02 Volts	FAIL	No or minimal sensor activity detected.
Freq. of AVG	0.33 Hz		
Standard Deviation	0.0 Volts		
# Samples	20		
Additional Notes			

Evaporative System - NOT GRADED

EVAP Tests	NO RSLT		
Additional Notes			

Temperatures - FAIL

ECT to IAT Comparison	19.8 °F	FAIL	Difference between ECT and IAT is too large.
Engine Coolant Temp	100.4 °F	PASS	
Intake Air Temperature	80.6 °F	PASS	
Additional Notes			
Intake Air Temperature	80.6 °F	PASS	
Additional Notes			
Engine Coolant Temperature	100.4 °F	PASS	
Additional Notes			
Transmission Fluid Temperature	84.2 °F		
Additional Notes			

Temperatures (KOER) - PASS


Engine Coolant Temperature		PASS	
MIN	181.4 °F	PASS	
MAX	183.2 °F	PASS	
AVG	183.11 °F	PASS	
Peak-To-Peak	1.8 °F		
Standard Deviation	0.4 °F		
Additional Notes			
Intake Air Temperature		PASS	
MIN	86 °F	PASS	
MAX	86 °F	PASS	
AVG	86 °F	PASS	
Peak-To-Peak	0 °F		
Standard Deviation	0 °F		
Additional Notes			
Transmission Fluid Temperature	39.0 °C		
Additional Notes			

Fuel Trim - PASS

Short Term Fuel Trim B1	0.0 %	PASS	
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Report Details

Test	Value	Result	Note
Additional Notes			
Long Term Fuel Trim B1	4.69 %	PASS	
Additional Notes			

 **Fuel Trim (KOER) - PASS**


Short Term Fuel Trim B1		PASS	
MIN	0.0 %	PASS	
MAX	3.13 %	PASS	
AVG	1.0 %	PASS	
Peak-To-Peak	3.13 %	PASS	
Standard Deviation	0.93 %		
Additional Notes			

Long Term Fuel Trim B1		PASS	
MIN	-4.69 %	PASS	
MAX	-4.69 %	PASS	
AVG	-4.69 %	PASS	
Peak-To-Peak	0.0 %	PASS	
Standard Deviation	0.0 %		
Additional Notes			


 **Fuel/Pressure & Rates - NOT GRADED**

Fuel Pressure	-119.52 mm Hg		
Additional Notes			

Fuel Circuit Tests	FAULT		
Additional Notes			


 **Fuel/Pressure & Rates (KOER) - NOT GRADED**

Fuel Pressure			
MIN	-0.75 V		
MAX	-0.75 V		
AVG	-0.75 V		
Peak-To-Peak	0.0 V		
Standard Deviation	0.0 V		
# Samples	14		
Additional Notes			

 **Load/Torque - NOT GRADED**

Calculated Load Value	0 %		
Additional Notes			

Engine Torque	0.0 N-m		
Additional Notes			

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

Calculated Load Value			
MIN	8.24 %		
MAX	8.24 %		
AVG	8.24 %		

Report Details

Test	Value	Result	Note
Peak-To-Peak	0.0 %		
Standard Deviation	0.0 %		
Additional Notes			


Engine Torque

MIN	6440145.0 N-m		
MAX	6982473.0 N-m		
AVG	6701624.57 N-m		
Peak-To-Peak	542328.0 N-m		
Standard Deviation	161761.85 N-m		
# Samples	14		
Additional Notes			

MAP Analysis for Load Analysis

13.88 in Hg

Additional Notes			
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 **Throttle/Accelerator - PASS****Absolute Throttle Position - Full Throttle Test**

MAX	0.0 %		
Additional Notes			

Absolute Throttle Position

0.0 %

PASS

Additional Notes			
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 **Misfire / Injectors - PASS****Misfire History**

0.0

PASS

MISFIRE HISTORY 1	0.0	PASS	
MISFIRE HISTORY 2	0.0	PASS	
MISFIRE HISTORY 3	0.0	PASS	
MISFIRE HISTORY 4	0.0	PASS	
MISFIRE HISTORY 5	0.0	PASS	
MISFIRE HISTORY 6	0.0	PASS	
Additional Notes			

 **Misfire / Injectors (KOER) - PASS****Misfire Current 1****PASS**

MAX	0.0	PASS	
# Samples	8		
Additional Notes			

Misfire Current 2**PASS**

MAX	0.0	PASS	
# Samples	8		
Additional Notes			

Misfire Current 3**PASS**

MAX	0.0	PASS	
# Samples	8		
Additional Notes			

Report Details

Test	Value	Result	Note
Misfire Current 4		PASS	
MAX	0.0	PASS	
# Samples	8		
Additional Notes			
Misfire Current 5		PASS	
MAX	0.0	PASS	
# Samples	8		
Additional Notes			
Misfire Current 6		PASS	
MAX	0.0	PASS	
# Samples	8		
Additional Notes			

Transmission - FAIL

Shift Errors	0.3	FAIL	
1-2 SHIFT ERRORS	0 s	PASS	
2-3 SHIFT ERRORS	0.3 s	FAIL	
Additional Notes			
Shift Times			
1-2 Shift Time	0 s		
2-3 Shift Time	0 s		
3-4 Shift Time	0 s		
Additional Notes			
PC Solenoid	NO	PASS	
1-2 Solenoid to Ground	NO	PASS	
2-3 Solenoid to Ground	NO	PASS	
2-3 Solenoid to Voltage	NO	PASS	
Additional Notes			
TCC System	0.0	PASS	
TCC Duty Cycle Shorted to Volts	NO	PASS	
TCC Duty Cycle Shorted to GND	NO	PASS	
TCC Duty Cycle	0.0 %	PASS	
Additional Notes			
Steady State TAP Cells	0	PASS	
Steady State TAP 1 GR	0 psig	PASS	
Steady State TAP 2 GR	0 psig	PASS	
Steady State TAP 3 GR	0 psig	PASS	
Steady State TAP 4 GR	0 psig	PASS	
Steady State TAP 2 GR/TCC	0 psig	PASS	
Steady State TAP 3 GR/TCC	0 psig	PASS	
Steady State TAP 4 GR/TCC	0 psig	PASS	
Additional Notes			

Transmission (KOER) - PASS

Report Details

Test	Value	Result	Note
Tap Cells	0.0	PASS	
1-2 TAP CELLS 4	2.5 psig	PASS	
1-2 TAP CELLS 5	14 psig	FAIL	
1-2 TAP CELLS 6	11.25 psig	FAIL	
1-2 TAP CELLS 7	14.25 psig	FAIL	
1-2 TAP CELLS 8	15.75 psig	FAIL	
1-2 TAP CELLS 9	8.75 psig	PASS	
1-2 TAP CELLS 10	1.75 psig	PASS	
1-2 TAP CELLS 11	0 psig	PASS	
1-2 TAP CELLS 12	0 psig	PASS	
1-2 TAP CELLS 13	0 psig	PASS	
1-2 TAP CELLS 14	0 psig	PASS	
1-2 TAP CELLS 15	0 psig	PASS	
1-2 TAP CELLS 16	0 psig	PASS	
2-3 TAP CELLS 4	59.77 psig	FAIL	
2-3 TAP CELLS 5	11.75 psig	FAIL	
2-3 TAP CELLS 6	19.01 psig	FAIL	
2-3 TAP CELLS 7	28.01 psig	FAIL	
2-3 TAP CELLS 8	20.75 psig	FAIL	
2-3 TAP CELLS 9	4.25 psig	PASS	
2-3 TAP CELLS 10	0 psig	PASS	
2-3 TAP CELLS 11	0 psig	PASS	
2-3 TAP CELLS 12	0 psig	PASS	
2-3 TAP CELLS 13	0 psig	PASS	
2-3 TAP CELLS 14	0 psig	PASS	
2-3 TAP CELLS 15	0 psig	PASS	
2-3 TAP CELLS 16	0 psig	PASS	
3-4 TAP CELLS 4	2.5 psig	PASS	
3-4 TAP CELLS 5	9.75 psig	PASS	
3-4 TAP CELLS 6	15 psig	FAIL	
3-4 TAP CELLS 7	8 psig	PASS	
3-4 TAP CELLS 8	1 psig	PASS	
3-4 TAP CELLS 9	0 psig	PASS	
3-4 TAP CELLS 10	0 psig	PASS	
3-4 TAP CELLS 11	0 psig	PASS	
3-4 TAP CELLS 13	0 psig	PASS	
3-4 TAP CELLS 14	0 psig	PASS	
3-4 TAP CELLS 15	0 psig	PASS	
3-4 TAP CELLS 16	0 psig	PASS	
Current TAP Cell	0.0	PASS	
Additional Notes			
PC Solenoid	0 A	PASS	
PC Sol. Actual Current	0.86 A	PASS	
PC Sol. Ref. Current	0.86 A	PASS	
Additional Notes			
TCC System	0.0 %	PASS	
Additional Notes			

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