
LSPI Matrix Test Status

August 10, 2016

All tests on stand B1 were run with 2016 hardware. The other stands in the matrix were configured with 2014 hardware. All B1 tests will be rerun on 2014 hardware shortly. It was determined that all stand G2 runs exhibited coolant flow control problems. The lab has agreed to rerun all matrix tests.

Data can be retrieved at: <ftp://ftp.astmtmc.cmu.edu/refdata/gas/lspi/data/ltms.csv>

The field COM2 will identify the test as a precision matrix test with a value of "MATRIX".

Test Length ~1 day/test

Matrix Completion: August 29, 2016

LSPI Matrix Test Status

Run Order	B 1	G 1	G 2	A 1	A 2
1	222 114968-LSPI 2016 Hardware	220 114954-LSPI Coolant Thermocouple Cal. Out	222 114960-LSPI Coolant Flow Control Problems	220 116220-LSPI	221 114973-LSPI
	2014 Hardware to be run	220 116222-LSPI	222 118888-LSPI Rerun in progress		
2	220 114962-LSPI 2016 Hardware	221 114956-LSPI Coolant Thermocouple Cal. Out	221 114955-LSPI	222 114976-LSPI	221 114974-LSPI
	2014 Hardware to be run	221 114957-LSPI	Rerun Needed		
3	220 114963-LSPI 2016 Hardware	221 114958-LSPI	220 116223-LSPI	222 114978-LSPI	222 114977-LSPI
	2014 Hardware to be run		Rerun Needed		
4	221 114965-LSPI 2016 Hardware	222 114961-LSPI	220 117631-LSPI	221 114975-LSPI	220 116959-LSPI
	2014 Hardware to be run		Rerun Needed		

✓ Indicates Task Force has reviewed operational data and found the test to be operationally valid.



Test Reported

Invalid

Oil	TestKey	Lab Stand	Average Valid Pre-Ignition Events	Comment
220(5W30) LEO	116220-LSPI	A1	0.8	
	116222-LSPI	G1	0.8	
	116223-LSPI	G2	2.2	Coolant Flow Control Problems
	114962-LSPI	B1	0.5	2016 Hardware
	117631-LSPI	G2	5.8	Coolant Flow Control Problems
	114963-LSPI	B1	0.0	2016 Hardware
	116959-LSPI	A2	0.5	
221(0W16) MEO	114973-LSPI	A2	16.8	
	114974-LSPI	A2	11.8	
	114955-LSPI	G2	13.0	Coolant Flow Control Problems
	114975-LSPI	A1	10.5	
	114957-LSPI	G1	11.2	
	114958-LSPI	G1	9.2	
	114965-LSPI	B1	6.5	2016 Hardware
222 (10W30) HEO	114960-LSPI	G2	21.5	Coolant Flow Control Problems
	114976-LSPI	A1	25.8	
	114978-LSPI	A1	19.8	
	114968-LSPI	B1	12.8	2016 Hardware
	114977-LSPI	A2	19.2	
	114961-LSPI	G1	17.0	

If there are any questions please let me know.

Best regards,
Frank

Frank Farber

<ftp://ftp.astmtmc.cmu.edu/docs/gas/GF6Matrix/cwt/20160810LSPIMatrixTestStatus.pdf>