

## VIF Precision Matrix

Four of eight Stage 2 Sense Check tests have been reported. All reported data is posted at:

<ftp://ftp.astmtmc.cmu.edu/refdata/gas/VIF/data/lrms.csv>

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

Oils: 542-2 (0W-20), 543 (0W-16), 1011(0W-16)

Run Order	EOT Engine Hours	SwRI #1		SwRI #2		IAR #1		IAR #2	
1	350	Stage 1 Sense Check	543 112952-VIF	Stage 2 Sense Check	1011 112953-VIF	Stage 1 Sense Check	542-2 112957-VIF	Stage 2 Sense Check	1011 112955-VIF
2	550		542-2 112951-VIF		542-2 116037-VIF		543 112958-VIF		543 113824-VIF
3	750		542-2 113818-VIF		1011 112954-VIF		543 113823-VIF		1011 112956-VIF
4	950		543 113819-VIF		543 113820-VIF		542-2 113822-VIF EBP Calibration Shift		542-2
5	1150	1011	543	1011	542-2				
6	1350	543	1011	543	1011				
7	1550	542-2	542-2	1011	543				
8	1750	1011		542-2					

Test Reported
Under Review
Invalid

Test length ~7 days

Estimated Stage 2 Sense Check completion: Week of April 11, 2016

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IND	Testkey	Lab/Stand	FEI1	FEI2	Engine Hours	Comment
542-2	112957-VIF	G1	2.10	1.44	371	
	112951-VIF	A1	2.42	1.59	572	
	113818-VIF	A1	2.28	1.46	777	
	113822-VIF	G1	1.38	0.95	1034	Deemed Invalid Due Exhaust Back Pressure Calibration Shift
	113231-VIF	G1	1.76	1.03	1236	
	116037-VIF	A2	2.45	1.36	573	
543	112952-VIF	A1	1.75	2.33	369	
	112958-VIF	G1	1.59	1.66	621	
	113823-VIF	G1	1.68	1.74	820	
	113819-VIF	A1	1.76	2.26	995	
1011	112955-VIF	G2	1.37	1.40	347	
	112953-VIF	A2	1.53	1.31	373	
	112954-VIF	A2	1.65	0.90	773	

If there are any questions please let me know.

Best regards,  
Frank

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<ftp://ftp.astmtmc.cmu.edu/docs/gas/GF6matrix/StatusReports/VIF/20160325VIFMatrixTestStatus.pdf>