

## VIF Precision Matrix

All Stage 2 Sense Check tests have been reported. There is some concern about the oil consumption levels of one or both of lab G's engines and their ability to complete the remaining tests. After review the task force agreed to move ahead with the rest of the matrix.

All reported data is posted at: <ftp://ftp.astmtmc.cmu.edu/refdata/gas/VIF/data/ltms.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)

Test length ~7 days

Estimated matrix completion: Week of June 6, 2016

If there are any questions please let me know.

Best regards,  
Frank

Frank Farber

GF-6 Matrix Project Supervisor

<ftp://ftp.astmtmc.cmu.edu/docs/gas/GF6matrix/StatusReports/VIF/20160504VIFMatrixTestStatus.pdf>

## VIF Precision Matrix

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 116030-VIF
5	1150	1011 117508-VIF		543 113821-VIF Worn Throttle Controller		1011 116832-VIF		542-2 116031-VIF	
6	1350	543		1011		543		1011	
7	1550	542-2		542-2		1011		543	
8	1750	1011				542-2			

Test Reported

Under Review

Invalid

## VIF Precision Matrix

IND	Testkey	Lab/Stand	FEI1	FEI2	Engine Hours	Total Oil Cons. (ml)	Comment
542-2	112957-VIF	G1	2.10	1.44	371	600	
	112951-VIF	A1	2.42	1.59	572	800	
	116037-VIF	A2	2.45	1.36	573	1000	
	113818-VIF	A1	2.28	1.46	777	900	
	113822-VIF	G1	1.38	0.95	1034	1300	Deemed Invalid Due Exhaust Back Pressure Calibration Shift
	116030-VIF	G2	2.01	1.53	1023	1700	
	113231-VIF	G1	1.76	1.03	1236	1400	
543	112952-VIF	A1	1.75	2.33	369	1200	
	112958-VIF	G1	1.59	1.66	621	800	
	113823-VIF	G1	1.68	1.74	820	1200	
	113820-VIF	A2	1.56	2.15	972	1000	
	113819-VIF	A1	1.76	2.26	995	800	
1011	112955-VIF	G2	1.37	1.40	347	400	
	112953-VIF	A2	1.53	1.31	373	800	
	113824-VIF	G2	2.08	2.35	544	800	
	112954-VIF	A2	1.65	0.90	773	1200	
	112956-VIF	G2	1.33	1.89	827	1800	