

## VIF Precision Matrix

All labs have reported data for their 6<sup>th</sup> run. Run 7 tests are started at each lab. The matrix will be finished when two labs complete their 8th test. 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 13, 2016

If there are any questions please let me know.

Best regards,  
Frank

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GF-6 Matrix Project Supervisor

<ftp://ftp.astmtmc.cmu.edu/docs/gas/GF6matrix/StatusReports/VIF/20160526VIFMatrixTestStatus.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 117626-VIF		1011 117509-VIF		543 113825-VIF		1011 117495-VIF	
7	1550	542-2 116038-VIF		542-2 117511-VIF		1011 117496-VIF		543 117494-VIF	
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	
	116031-VIF	G2	1.78	1.33	1224	1200	
	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	
	117512-VIF	A2	1.81	1.96	1264	1300	
	117626-VIF	A1	1.36	1.82	1397	1200	
	113825-VIF	G1	1.55	1.50	1704	1800	
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	
	117508-VIF	A1	1.70	1.69	1197	800	
	117495-VIF	G2	1.63	1.57	1439	1700	
	117509-VIF	A2	1.52	1.40	1462	1400	
116832-VIF	G1	1.27	1.07	1505	1200		