

GF-6 IIIH Matrix Test Status September 8, 2015

All 2nd run tests have been reported to the TMC. Third and fourth run tests have been started at all labs except for lab E. All data is posted at: <ftp://ftp.astmtmc.cmu.edu/refdata/gas/IIIH/data/ltms.csv>

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

Lab E has reported back to the IIIH Task Force that they have diagnosed problems with fuel flow and MAP to heat drift of the load cell after a restart. They are currently running a shakedown test and would like to have the results reviewed by the task force in order to start matrix testing soon. The lab has confirmed that MAP and fuel flow were significantly lower than specified on their first matrix test. As a result, the lab has indicated that they would invalidate their first run and rerun. The second test is still considered valid by the lab as a result of a dyno calibration correction made prior to the start of the second run. The task force plans to review Lab E's shakedown data and operational data from other IIIH matrix tests on September 14th.

Estimated Matrix Completion:

90 hour test (4 days) + 4-5 day test turn around until reported ~ 8 days/test.

Earliest Start of 3rd run test @ Lab E =9/11/2015

Estimated matrix completion =9/11/2015 + 2*8 days = ~Week of September 28th

IIH Matrix Test Status

	Lab-Stand	D-1	E-1	B-1	G-1	G-2	A-1	A-2
Run Order	1	434-2 106788-IIIH	438-1 106784-IIIH Low MAP and Fuel Flow	438-1 106796-IIIH Oil Leak 438-1 106797-IIIH	436 106763-IIIH	436 106764-IIIH	438-1 106774-IIIH	434-2 106778-IIIH
	2	434-2 106789-IIIH Loss of Oil Pressure	436 106782-IIIH	436 106792-IIIH	438-1 106767-IIIH	434-2 107873-IIIH	438-1 107869-IIIH	438-1 107870-IIIH
		434-2 106789A-IIIH						
	3	436 106786-IIIH	434-2	436 106793-IIIH	438-1 106768-IIIH	434-2 110227-IIIH	434-2 106779-IIIH	436 106775-IIIH
4	438-1	434-2	434-2 106795-IIIH	434-2 110228-IIIH	438-1 107872-IIIH	436	436	

Test Reported

Invalid

Reported Test Results

Oil	TestKey	Lab	Stand	EOT Vis Increase (%)	WPD (merits)	Phos. Retention (%)	MRV	Comment
434-2	106778-IIIH	A	2	137.5	3.98	78.47	81300	
	106788-IIIH	D	1	13.6	4.73	79.83	N/A	
	107873-IIIH	G	2	166.6	4.10	79.94	102200	
	106789A-IIIH	D	1	59.4	5.60	78.85	N/A	
436	106763-IIIH	G	1	19.5	4.45	94.73	13100	
	106764-IIIH	G	2	26.9	3.99	95.62	14800	
	106782-IIIH	E	1	19.5	4.25	N/A	N/A	
	106792-IIIH	B	1	22.4	4.77	99.44	N/A	
	106793-IIIH	B	1	31.3	4.96	N/A	N/A	
438-1	106774-IIIH	A	1	265.1	3.34	79.22	84900	
	106784-IIIH	E	1	34.5	3.72	78.54	22600	Invalid
	106797-IIIH	B	1	24.6	3.32	73.60	N/A	
	106767-IIIH	G	1	31.2	3.33	81.30	18900	
	107869-IIIH	A	1	209.0	3.10	N/A	N/A	
	107870-IIIH	A	2	31.3	3.42	N/A	N/A	
	106768-IIIH	G	1	29.4	3.46	80.85	20500	

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/20150908MatrixTestStatus.pdf>