

**GF-6 IIIH Matrix Test Status**  
**November 3, 2015**

All matrix tests have been completed and reported. All tests have been reviewed for operational validity by the IIIH operation review task force and at this point are found to be acceptable. However, further investigation into low viscosity increase results for tests 106788-IIIH and 106789A-IIIH run at Lab D on 434-2 has been initiated. A mild WPD result for test 107872-IIIH run on 438-1 at Lab G is also being investigated. The IIIH task force will review matrix data on this Wednesday, November 5<sup>th</sup>.

All reported 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".

### 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	36 106763-IIIH ✓	436 106764-IIIH Low MAP & Erratic Fuel Flow	438-1 106774-IIIH ✓	434-2 106778-IIIH ✓
			438-1 106785-IIIH ✓	438-1 106797-IIIH ✓		436 111422-IIIH ✓		
	2	434-2 106789-IIIH Loss of Oil Pressure	436 106782-IIIH Low MAP & Fuel Flow	436 106792-IIIH ✓	438-1 106767-IIIH ✓	434-2 107873-IIIH ✓	438-1 107869-IIIH ✓	438-1 107870-IIIH ✓
		434-2 106789A-IIIH ✓	436 106783-IIIH ✓					
	3	436 106786-IIIH ✓	434-2 106781-IIIH ✓	436 106793-IIIH ✓	438-1 106768-IIIH ✓	434-2 110227-IIIH ✓	434-2 106779-IIIH ✓	436 106775-IIIH ✓
	4	438-1 106791-IIIH ✓	434-2 106780-IIIH ✓	434-2 106795-IIIH ✓	434-2 110228-IIIH ✓	438-1 107872-IIIH ✓	436 106777-IIIH ✓	436 106776-IIIH ✓

✓ Indicates operation task force has reviewed operational data and found the test to be operationally valid.

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	14600	
	107873-IIIH	G	2	166.6	4.10	79.94	102200	
	106789A-IIIH	D	1	59.4	5.60	78.85	36000	Rerun of D2
	106795-IIIH	B	1	99.8	3.93	81.34	136000	
	110227-IIIH	G	2	180.9	3.35	81.28	121000	
	106779-IIIH	A	1	104.9	3.66	78.39	60900	
	110228-IIIH	G	1	129.6	4.28	81.22	81800	
	106781-IIIH	E	1	121.8	4.19	77.42	167000	
	106780-IIIH	E	1	232.4	3.40	82.09	164276	
436	106763-IIIH	G	1	19.5	4.45	94.73	13100	
	106764-IIIH	G	2	26.9	3.99	95.62	14800	Invalid
	106782-IIIH	E	1	19.5	4.25	88.87	34000	Invalid
	106792-IIIH	B	1	22.4	4.77	99.44	15500	
	106793-IIIH	B	1	31.3	4.96	98.06	20000	
	106786-IIIH	D	1	27.8	4.72	95.30	18600	
	106775-IIIH	A	2	38	4.62	91.51	22500	
	106776-IIIH	A	2	22.7	4.92	92.62	15300	
	106777-IIIH	A	1	54.6	4.30	92.37	27900	
	111422-IIIH	G	2	25.3	4.24	95.23	14100	
	106783-IIIH	E	1	26.5	4.24	92.78	19497	
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	76.52	19700	Rerun of B1
	106767-IIIH	G	1	31.2	3.33	81.30	18900	
	107869-IIIH	A	1	209.0	3.10	77.36	70600	
	107870-IIIH	A	2	31.3	3.42	78.49	13200	
	106768-IIIH	G	1	29.4	3.46	80.85	20500	
	107872-IIIH	G	2	130.9	4.50	79.40	36400	
	106791-IIIH	D	1	25.4	3.59	79.22	9800	
106785-IIIH	E	1	73.6	3.97	78.07	26041	Rerun of E1	

If there are any questions please let me know.

Best regards,  
Frank

Frank Farber

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<ftp://ftp.astmtmc.cmu.edu/docs/gas/GF6matrix/StatusReports/20151103MatrixTestStatus.pdf>