

## GF-6 IIIH Matrix Test Status September 22, 2015

Labs B, D and G have completed matrix testing. Labs A and E are still running tests. 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 with their 20 hour operational shakedown run data. Lab E feels the problems with their operational control have been corrected. Based on the data provided the IIIH Task Force felt the lab could continue their testing with tests 3 and 4 and then rerun their invalid first run on 438-1. Lab E will be preparing a presentation to the Surveillance Panel in regard to the operational validity of their second test. Most recently reported tests from other labs still need to be reviewed by the task force for operational validity. The task force will prepare a presentation to the Surveillance Panel for final review at the conclusion of the matrix.

All labs are encouraged to report Phos. & MRV results as quickly as possible.

Estimated Matrix Completion:

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

Earliest Start of 3<sup>rd</sup> run test @ Lab E =9/15/2015

Estimated matrix completion and reporting=9/15/2015 + 2\*8 days = ~Week of October 5th

### 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<br>106788-IIH                            | 438-1<br>106784-IIH<br>Low MAP and<br>Fuel Flow | 438-1<br>106796-IIH<br>Oil Leak<br>438-1<br>106797-IIH | 436<br>106763-IIH   | 436<br>106764-IIH   | 438-1<br>106774-IIH | 434-2<br>106778-IIH |
|           | 2                   | 434-2<br>106789-IIH<br>Loss of Oil<br>Pressure | 436<br>106782-IIH                               | 436<br>106792-IIH                                      | 438-1<br>106767-IIH | 434-2<br>107873-IIH | 438-1<br>107869-IIH | 438-1<br>107870-IIH |
|           |                     | 434-2<br>106789A-IIH                           |   |  |                     |                     |                     |                     |
|           | 3                   | 436<br>106786-IIH                              | 434-2<br>106781-IIH                             | 436<br>106793-IIH                                      | 438-1<br>106768-IIH | 434-2<br>110227-IIH | 434-2<br>106779-IIH | 436<br>106775-IIH   |
| 4         | 438-1<br>106791-IIH | 434-2  | 434-2<br>106795-IIH                             | 434-2<br>110228-IIH                                    | 438-1<br>107872-IIH | 436<br>106777-IIH   | 436<br>106776-IIH   |                     |

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  |         |
|             | 106795-IIIH  | B   | 1     | 99.8                 | 3.93         | 81.34               | N/A    |         |
|             | 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  |         |
| 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               | 15500  |         |
|             | 106793-IIIH  | B   | 1     | 31.3                 | 4.96         | N/A                 | N/A    |         |
|             | 106786-IIIH  | D   | 1     | 27.8                 | 4.72         | 95.30               | 18600  |         |
|             | 106775-IIIH  | A   | 2     | 38                   | 4.62         | 91.51               | 22500  |         |
| 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  |         |
|             | 107872-IIIH  | G   | 2     | 130.9                | 4.50         | 79.40               | 36400  |         |
| 106791-IIIH | D            | 1   | 25.4  | 3.59                 | 79.22        | 9800                |        |         |



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/20150922MatrixTestStatus.pdf>