

VIE/VID Equivalency Survey

8/2/2017

All of the 18 Phase 1 VIE tests have been reported to the TMC. The API LG Group accepted the following run order for Phase 2.

All reported data is posted at:

<http://www.astmtmc.cmu.edu/ftp/refdata/gas/VIE/data/ltms.csv>

The field COM3 will identify the test as a matrix test with a value of “VID/VIE=”.

If there are any questions please let me know.

Best regards,
Frank

Frank Farber

<http://www.astmtmc.cmu.edu/ftp/docs/gas/GF6matrix/StatusReports/VIE/20170802VIDVIEMatrixTestStatus.pdf>

| Lab | IAR | | | SwRI | | |
|---------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| LTMSAPP/Stand | G1/51 | G5/53 | G7/64 | A10/25 | A11/72 | A9/62 |
| Phase 1 | Pass on any VIE Reference Oil | Pass on any VIE Reference Oil | Pass on any VIE Reference Oil | Pass on any VIE Reference Oil | Pass on any VIE Reference Oil | Pass on any VIE Reference Oil |
| | 0W-20A 126998-VIE | 5W-30B 127002-VIE | 10W-30C 127006-VIE | 5W-20C 127009-VIE | 5W-30A 127010-VIE | 10W-30B 127014-VIE |
| | 5W-20B 126999-VIE | 5W-30C 127003-VIE | 10W-30A 127004-VIE | 0W-20A 127007-VIE | 5W-30B 127011-VIE | 10W-30C 127015-VIE |
| | 5W-20C 12700-VIE | 5W-30A 127001-VIE | 10W-30B 127005-VIE | 5W-20B 127008-VIE | 5W-30C 127012-VIE | 10W-30A 127013-VIE |
| Phase 2 | Pass on any VIE Reference Oil | | Pass on any VIE Reference Oil | Pass on any VIE Reference Oil | | Pass on any VIE Reference Oil |
| | 10W-30A | | 0W-20A | 0W-20A | | 10W-30TBD |
| | | | 5W-20C ¹ | 5W-20C ¹ | | |
| | | | 5W-30A | 5W-30A | | |

¹ Funded outside of MOA

Test Reported

Invalid

VIE/VID Equivalency Matrix

| IND | Testkey | Lab/Stand | Stand/Engine SA Adjusted | | | Oil Cons., ml | Engine Hours | Comment |
|---------|------------|-----------|--------------------------|------|--------|---------------|--------------|---------|
| | | | FEI1 | FEI2 | FEISUM | | | |
| 0W-20A | 126998-VIE | G1 | 1.83 | 1.81 | 3.64 | 700 | 760 | |
| | 127007-VIE | A10 | 1.81 | 1.77 | 3.58 | 800 | 763 | |
| 5W-20B | 126999-VIE | G1 | 2.13 | 1.77 | 3.90 | 600 | 562 | |
| | 127008-VIE | A10 | 2.33 | 1.63 | 3.96 | 966 | 400 | |
| 5W-20C | 127000-VIE | G1 | 1.75 | 2.01 | 3.76 | 1000 | 962 | |
| | 127009-VIE | A10 | 1.50 | 1.57 | 3.07 | 700 | 563 | |
| 5W-30A | 127001-VIE | G5 | 1.32 | 1.10 | 2.42 | 1600 | 751 | |
| | 127010-VIE | A11 | 1.47 | 1.21 | 2.68 | 600 | 598 | |
| 5W-30B | 127002-VIE | G5 | 2.28 | 1.68 | 3.96 | 900 | 554 | |
| | 127011-VIE | A11 | 2.28 | 1.44 | 3.72 | 600 | 799 | |
| 5W-30C | 127003-VIE | G5 | 1.40 | 1.25 | 2.65 | 1400 | 969 | |
| | 127012-VIE | A11 | 2.01 | 1.21 | 3.22 | 600 | 1021 | |
| 10W-30A | 127004-VIE | G7 | 1.21 | 1.03 | 2.24 | 1100 | 762 | |
| | 120713-VIE | A9 | 1.40 | 1.12 | 2.52 | 1000 | 1000 | |
| 10W-30B | 127005-VIE | G7 | 1.80 | 1.27 | 3.07 | 1000 | 564 | |
| | 127014-VIE | A9 | 2.21 | 1.21 | 3.42 | 1000 | 575 | |
| 10W-30C | 127006-VIE | G7 | 1.39 | 1.19 | 2.58 | 1200 | 965 | |
| | 127015-VIE | A9 | 1.77 | 1.33 | 3.10 | 800 | 755 | |