

PC-11 VGRA Matrix Test Status

November 23, 2015

All oils initially intended to be run in the VGRA matrix will be run by the labs. PC11G (15W40) will be run in the T-13 test as soon as possible by both labs. All T-13 data will be posted at:

<ftp://ftp.astmtmc.cmu.edu/refdata/diesel/T13/data/ltms.csv>

All of the originally requested COAT VGRA oils will be run. Lab G is nearing completion of their runs. Lab A has reported their first COAT test and completed the second test. All COAT data will be posted at:

<ftp://ftp.astmtmc.cmu.edu/refdata/diesel/COAT/data/ltms.csv>

The field COM1 will identify the tests as VGRA matrix tests with a value of "VGRA".
Estimated T-13 Matrix Completion (360 hours/test): Week of January 4, 2015

T-13 VGRA Matrix Test Status

	Lab-Stand	A-1	A-2	D-1	G-1	G-2
Run Order	1	PC11A* 10W30 BS1 Tech1 111339-T13 Reported ✓	PC11Y 10W40 BS1 Tech 1 111446-T13 ✓	PC11LL 15W40 BS2 Tech3 111349-T13 ✓	PC11A 10W30 BS1 Tech1 111337-T13 Reported ✓	PC11KK 15W40 BS2 Tech2 111439-T13 ✓
	2	PC11KK 15W40 BS2 Tech2 111438-T13 In Progress		PC11Y 10W40 BS1 Tech1 111445-T13 In Progress	PC11G 15W40 BS1 Tech1 Planned	PC11LL 15W40 BS2 Tech3 111350-T13 In Progress
	3	PC11G 15W40 BS1 Tech1 Planned				

✓ Judged operationally valid.

Test Reported

Invalid

Wrong Oil

* Failed reference criteria

T-13 Reported Results
(Results are not lab severity adjusted)

Oil	TestKey	Lab	Stand	IR Peak Height @ EOT	Viscosity Increase@ 40°C (%)	Comment
PC11A	111339-T13	A	1	91.8	32.4	Failed reference criteria in mild direction
PC11A	111337-T13	G	1	116	61.2	Passed reference criteria
PC11KK	111439-T13	G	2	38.0	4.9	
PC11LL	111349-T13	D	1	117.3	56.1	
PC11Y	111446-T13	A	2	123.0	59.8	

Wrong Oil

COAT

Run #	A	G
1	823 10W30 BS1 Tech 1 110156-COAT ✓	832* 15W40 BS1 Tech 1 110729-COAT Reported ✓
2	PC11X 10W40 BS2 Tech 2 Completed	PC11FF 10W30 BS2 Tech 3 111352-COAT Reported
3	PC11FF 10W30 BS2 Tech 3	PC11EE 10W30 BS2 Tech 2 111564-COAT ✓
4	PC11EE 10W30 BS2 Tech 2	PC11X 10W40 BS2 Tech2 111442-COAT ✓
		PC11FF (rerun) 10W30 BS2 Tech 3 113212-COAT Completed
		823 (Correct Oil) 10W30 BS1 Tech 1

✓ Judged operationally valid.

* Failed reference criteria

Test Reported

Invalid

Wrong Oil

COAT Reported Results
(Results are not lab severity adjusted)

Oil	TestKey	Lab	Stand	Average Aeration (40-50) - %	Comment
832	110729-COAT	G	1	10.99	Failed reference prediction error criteria in the severe direction
PC11X	111442-COAT	G	1	11.40	
PC11EE	111564-COAT	G	1	10.01	
823	110156-COAT	A	1	10.19	

Wrong Oil

If there are any questions please let me know.

Best regards,
Frank

Frank Farber

PC-11 VGRA Matrix Project Supervisor

ftp://ftp.astmtmc.cmu.edu/docs/diesel/PC11matrix/20151123_VGRAMatrixTestStatus.pdf