PC-11 VGRA Matrix Test Status April 1, 2016

T-13:

TheT-13 matrix has completed and all tests have been reviewed by the surveillance panel and determined to be operationally valid. The statisticians are in the process of analyzing the data. All T-13 data is posted at: ftp://ftp.astmtmc.cmu.edu/refdata/diesel/T13/data/ltms.csv

COAT:

All COAT VGRA tests have been reported. The only test that has not been reviewed by the surveillance panel is 114523-COAT. All COAT data is 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".

T-13 VGRA Matrix Test Status

	Lab-Stand	A-1	A-2	D-1	G-1	G-2
	1	PC11A*	PC11Y	PC11LL	PC11A	PC11KK
		10W30	10W40	15W40	10W30	15W40
		BS1 Tech1	BS1 Tech 1	BS2 Tech3	BS1 Tech1	BS2 Tech2
		111339-T13	111446-T13	111349-T13	111337-T13	111439-T13
		✓	\checkmark	✓	\checkmark	✓
Run Order	2	PC11KK		PC11Y	PC11G	PC11LL
		15W40		10W40	15W40	15W40
		BS2 Tech2		BS1 Tech1	BS1 Tech1	BS2 Tech3
		111438-T13		111445-T13	113302-T13	111350-T13
		✓		✓	\checkmark	✓
	3	PC11G				
		15W40				
		BS1 Tech1				
		108381-T13				
		✓				

[✓] Surveillance Panel 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	Α	1	91.8	32.4	Failed reference criteria in mild direction
	111337-T13	G	1	116	61.2	Passed reference criteria
PC11KK	111439-T13	G	2	38.0	4.9	
	111438-T13	Α	1	64.8	16.1	
PC11LL	111349-T13	D	1	117.3	56.1	
	111350-T13	G	2	100.0	48.6	
PC11Y	111446-T13	Α	2	123.0	59.8	
	111445-T13	D	1	116.1	51.3	
PC11G	113302-T13	G	1	116.0	53.5	
	108381-T13	Α	1	119.6	62.9	

Wrong Oil



COAT

Run #	А	G
	823√	832*✓
1	10W30	15W40
1	BS1 Tech 1	BS1 Tech 1
	110156-COAT	110729-COAT
	PC11X✓	PC11FF
2	10W40	10W30
2	BS2 Tech 2	BS2 Tech 3
	111441-COAT	111352-COAT
	PC11FF✓	PC11EE√
3	10W30	10W30
	BS2 Tech 3	BS2 Tech 2
	111351-COAT	111564-COAT
	PC11EE	
	10W30	
	BS2 Tech 2	
	111563-COAT	PC11X√
	Aborted Oil Leak	10W40
4	PC11EE	BS2 Tech2
	Re-run Aborted Oil Leak	111442-COAT
	PC11EE	
	10W30	
	BS2 Tech 2	
	114523-COAT	
		PC11FF (rerun)√
		10W30
		BS2 Tech 3
		113212-COAT
		823 (Correct Oil)⊡√
		10W30
		BS1 Tech 1
		113303-COAT

[✓] Judged operationally valid.



^{*} Failed reference criteria

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	
	111441-COAT	Α	1	10.80	
PC11EE	111564-COAT	G	1	10.01	
	114523-COAT	Α	1	9.36	
PC11FF	111351-COAT	Α	1	10.73	
	113212_COAT	G	1	11.03	
823	110156-COAT	Α	1	10.19	
	113303-COAT	G	1	10.39	

Wrong Oil

If there are any questions please let me know.

Best regards, Frank

Frank Farber

PC-11 VGRA Matrix Project Supervisor

 $ftp://ftp.astmtmc.cmu.edu/docs/diesel/PC11matrix/20160401_VGRAMatrixTestStatus.pdf$

