

**PC-11 Matrix Test Status  
December 15, 2014**

**T-13 Matrix Test Status**

	Lab	Intertek		Southwest		Afton	Lubrizol	ExxonMobil
	Stand	1	2	1	2	1	1	1
Test 1	Oil	D	E	B	F	B	E	D
	Start Date	9/21	9/18	9/15	9/17	9/16	9/18	9/23
	Reported to TMC	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Test 2	Oil	A	B	F	A	A	C	C
	Current Test Hours	Completed	Completed <sup>1</sup>	Completed	Completed	Completed	Completed	Completed
	Reported to TMC	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Test 3	Oil	C	F	A	C	E	A	B
	Current Test Hours	Completed	Completed	Completed	Completed	Completed	Completed <sup>2</sup>	Completed
	Reported to TMC	Yes	Yes	Yes	Yes	Yes	No	Yes
Test 4	Oil	E	A	D	E	F	D	E
	Current Test Hours	Completed	216	Completed	203	Completed	67	Completed
	Expected EOT	12/5	12/21	12/13	12/21	11/28	12/27	11/29
	Reported to TMC	Yes	-	No	-	Yes	-	Yes

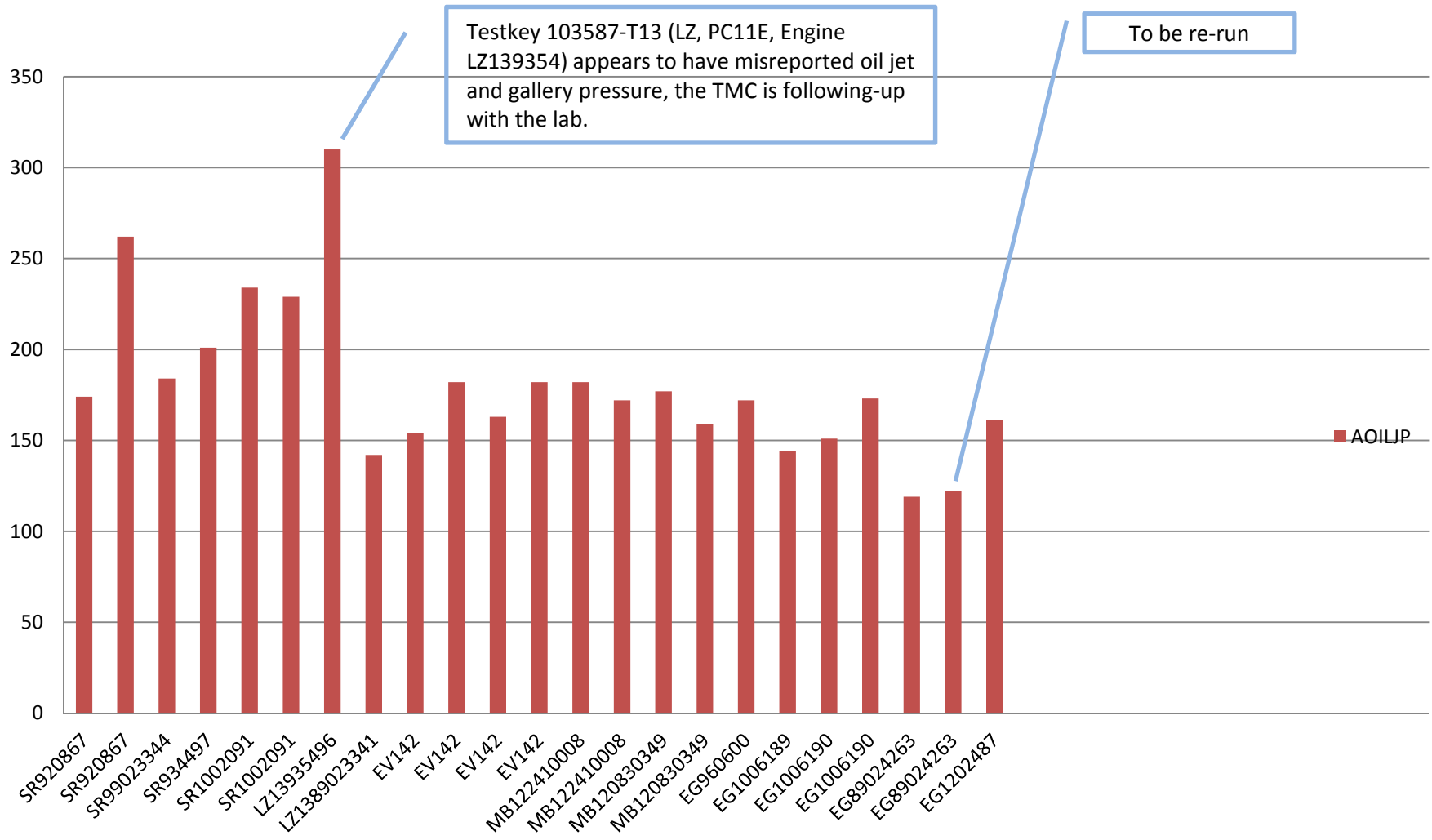
<sup>1</sup> Low oil jet pressure concern noted. To be re-run on another stand and engine.

<sup>2</sup> Re-run. First run on oil A had an oil leak. Test was invalid.

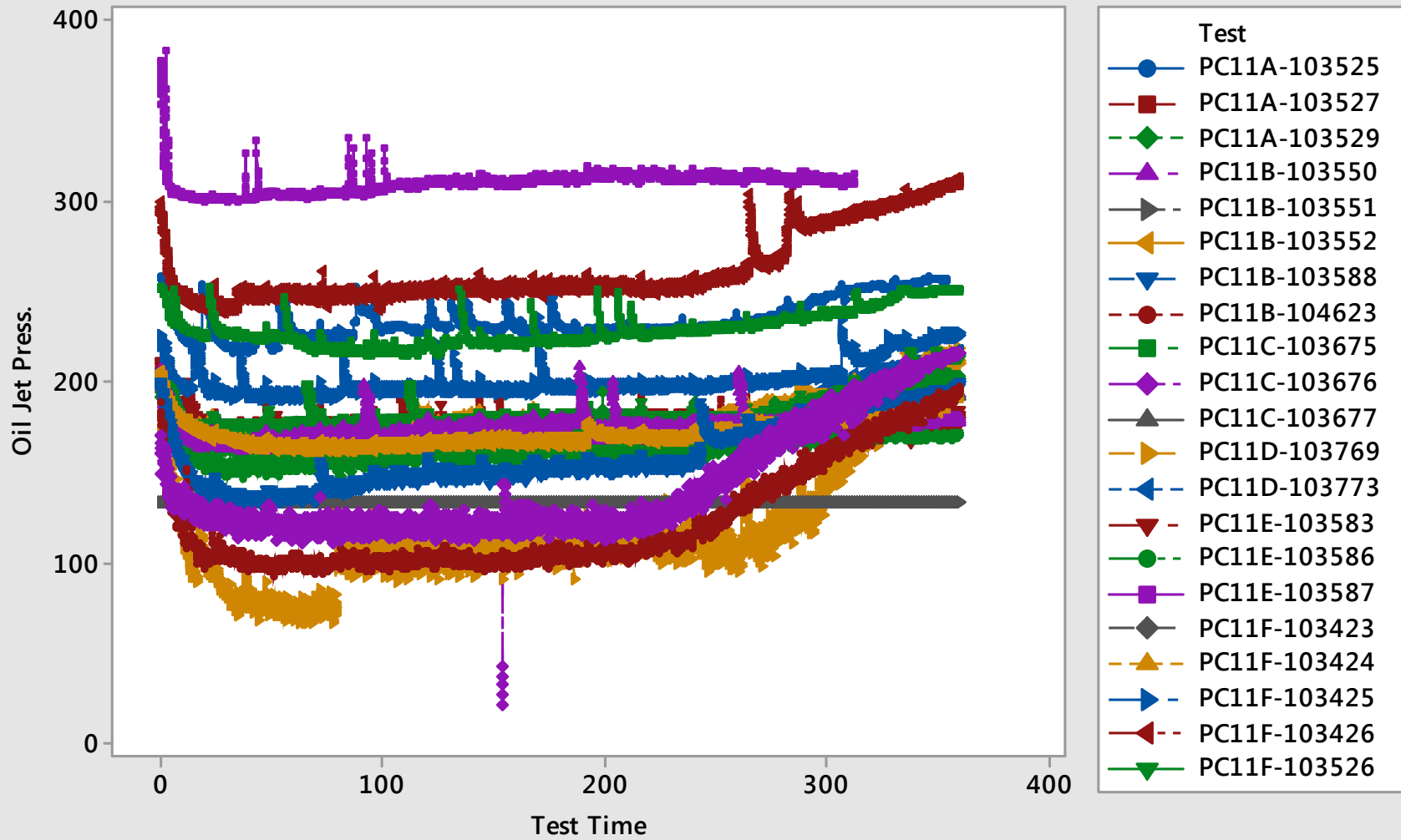
360 hour test (15 days) + 2-3 day test turn around = 18 days/test

Estimated matrix completion = Week of December 29nd

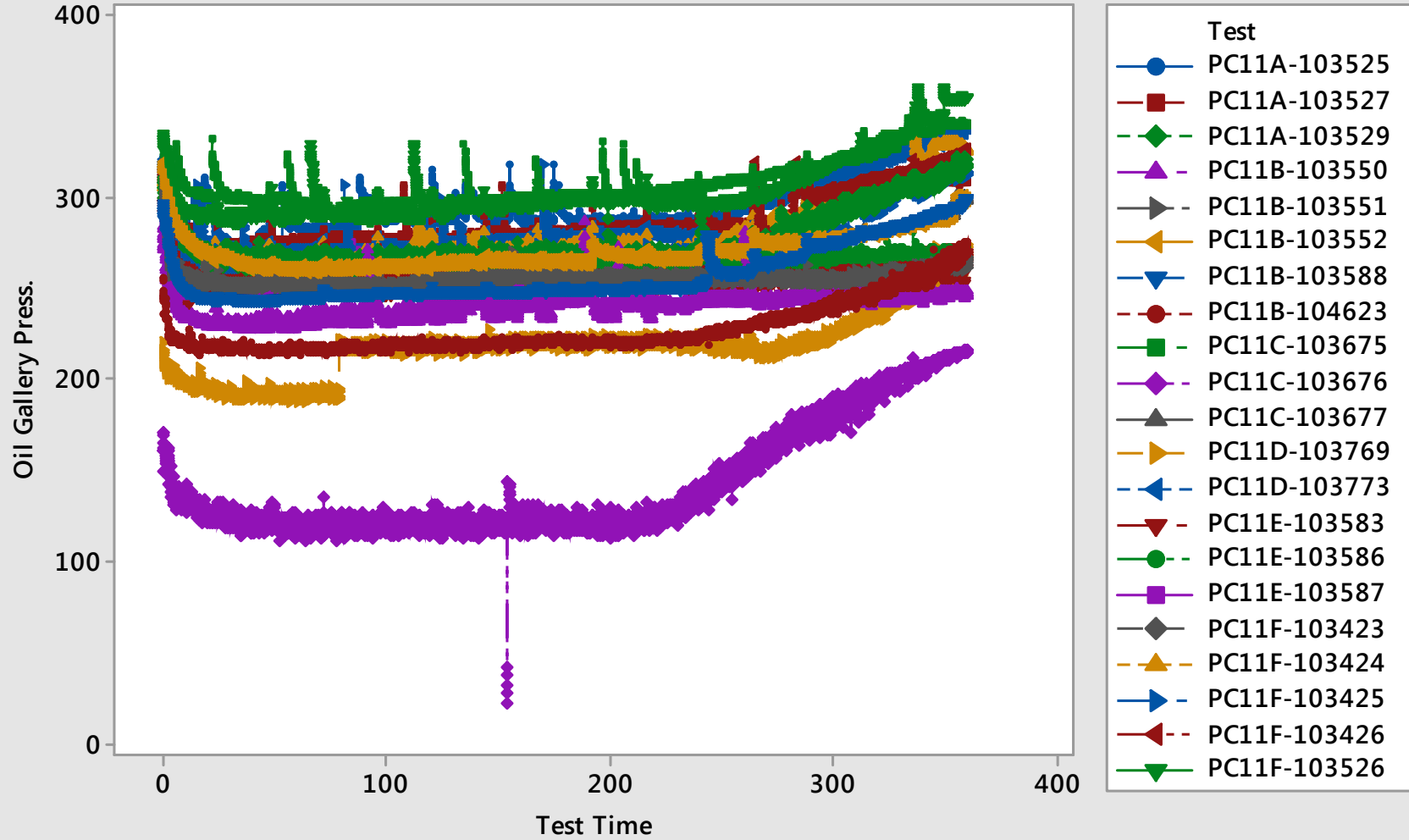
### Average Oil Jet Pressure vs Engine



Scatterplot of Oil Jet Press. vs Test Time



### Scatterplot of Oil Gallery Press. vs Test Time



## COAT Matrix

		Lab	SR	LZ	EG
Completed	Test 1	Oil	K	I	G
		Reported	No	No	No
	Test 2	Oil	J	K	I
		Reported	No	No	No
	Test 3	Oil	G	G	K
		Reported	No	No	No
	Test 4	Oil	L	L	J
		Reported	No	No	No
	Test 5	Oil	H	J	H
		Reported	No	No	No
	Test 6	Oil	I	H	L
		Reported	No	No	No
	Test 7	Oil	K	H	G
		Reported	No	No	No
	Test 8	Oil	I	J	L
		Reported	No	No	No
	Test 9	Oil	H	L	H
		Reported	No	No	No
	Test 10	Oil	L	G	J
		Reported	No	No	No
In-Progress	Test 11	Oil	G	K	K
		Status	EOT 12/17	EOT 12/17	Completed
	Test 12	Oil	J	I	I
Status		-	-	24 hrs. 12/16 EOT	
	Test 13		K		G

**Estimated matrix completion = Week of December 22<sup>nd</sup>.**

Oil '1' is in short supply due to limited quantity initially supplied. Additional reruns on this oil may not be possible.

A new release of report packet is being reviewed by the laboratories. It is expected that data reporting will start on these new forms in late December. Labs have been reporting data for each test on multiple sheet workbooks.

TMC HomePage contains a ***PC-11 & GF-6 Matrix Info*** hotLink.

Frank Farber  
PC-11 Matrix Project Supervisor

<ftp://ftp.astmtmc.cmu.edu/docs/diesel/PC11matrix/20141215MatrixStatusReport.pdf>