

## ASTM Chain Wear Task Force Meeting in San Antonio Friday 4<sup>th</sup> August, 2017

**Written By: Jason Soto**

### Attendance

Attendee	Company
Christian Porter	Afton
Rich Grundza	ASTMTMC
Clifford Salvesen	ExxonMobil
Ron Romano	Ford
Jason Soto	IAR
Andy Ritchie	Infineum
Charlie Leverett	Infineum
Demetrius Lytle	Lubrizol
Joe Gleason	Lubrizol
Kevin O'Malley	Lubrizol
Jason Bowden	OHT
Robert Stockwell	Oronite
Joe Martinez	Oronite
Pat Lang	SwRI
Travis Kostan	SwRI

Attendee	Company
Dan Lanctot	TEI
Nathan Bean	Valvoline
Amol Savant	Valvoline

### Meeting Minutes:

- Operational review for all post precision matrix tests.
- Tests with test keys 115949, 119724,121936, and 122940 were run with lower fuel pressure than specified in the procedure.
- Test key 113426 operational data showed high boost pressure and MAP. The CAN data showed high absolute throttle position, Lambda had a data acquisition problem, boost absolute pressure and turbocharger wastegate duty cycle had a few high spikes.
- Ramps from lab D were captured at a different acquisition rate than specified in the procedure.
- Test key 119719 was invalidated for a faulty exhaust camshaft actuator which affected other parameters. The exhaust camshaft position actuator duty cycle was running out of operational range. The 2014 hardware that was used for the precision matrix and post matrix tests has been consumed. This test will not be rerun since all the 2014 hardware has been consumed.
- All tests submitted other than test key 119719 was approved. The approved precision matrix and post matrix data will now be reviewed by the statisticians.
- IAR ran a test on a 2016 engine with 2016 BC pistons and rings. Test number 95-0-66 ran on reference oil 270. The final result was 0.1362%.



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### **Action Items**

1. Labs will identify their blowby setup for each test and submit the information to Rich.
2. Each lab agreed to run two tests, one on oil 270 and the other on oil 271. Each test will be run on a 2016 engine, 2016 BC pistons and rings that came in the engine.

### **Hardware Update**

- A solicitation will be going out for piston rings and extra BC pistons.