

## Chain Wear Task Force Conference Call

October 6, 2015

### Attendees:

SWRI – Felt Mounce

Intertek - Al Lopez, Jason Soto, Bill Buscher

Ford – Ron Romano

Afton – Christian Porter, Ed Altman

Lubrizol – George Szappanos, Kevin OMalley

Infineum – Gordon Farnsworth, Ryan Rieth, Doyle Boese

TEI –Dan Lanctot

TMC – Rich Grundza

Oronite – Kustav Sinha, Mahboob Hosseini, Jo Martinez

OHT – Jason Bowden, Matt Bowden

Exxon – Jordon Smith

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### Test Status:

Afton to begin final reference oil run this week. This will be run on the updated procedure.

Ashland had some cell issues and expect to start a run soon.

SWRI completed a run using the updated procedure which includes longer ramping times (similar to what SWRI is already running), going back to longer run time per 24 hour period, and blowby flow control instead of blowby temperature control. The change in blowby control is getting SWRI to temperature 30 minutes sooner. The results for this test are more severe than the previous run. Felt feels the major difference is the longer run time, and the blowby control. His test was already ramping close to these conditions, so he doesn't expect the ramping procedure change to have had much effect.

Ron is quite adamant all labs quickly complete their final pre-matrix runs soon.

**Severity:**

Felt offered a theory that with the longer stage two run times in the updated procedure we may be seeing less fuel dilution. The shortened stage 2 did not allow all the fuel to boil off, and he feels higher fuel dilution may lead to a milder test.

One lab offered the fact they've seen some candidate results with more severe results than the Ford Reference oil. Other labs did not offer comments. At least one lab is checking results.

**Chain Measurement:**

Al Lopez sent a memo to all the labs about measurement discrepancies using the rotating device. Both SWRI and Intertek have seen consistent measurements of the "reference" chain, but it takes 3-5 sets of measurements before the "test" chain measurement stabilizes. There also seems to be much chatter or shake in the dry test chain. Felt was asked if this shake decreases as the measurement decreases during subsequent measurements but he said if it does, it's not noticeable. The measurements for both chains are very consistent using the fixed BHJ device, but the measurements don't always match the rotating device measurements. Currently the procedure calls for no measurement of the test chain until after breakin. At that time the chain is put in a sonic cleaner with Stoddard, then dried with heptane. The reference chain is measured "as is" from the factory, uncleaned. The test chain is measured cleaned and dry.

With the inconsistencies between rigs, Intertek is measuring the chains on both rigs.

Al requested a measurement workshop. Afton had two technicians in Texas, so Al was able to hold a quick meeting Tuesday to see if they could resolve any issues. Those results will be posted later.

George Szappanos offered to bring the rotating device to Detroit the week of the SP meetings so we could perhaps have a short measurement workshop then. All the lab engineers will meet and discuss measurement procedures and ideas.

**Parts:**

Ron mentioned all labs need to get the fuel injector orders in soon.

Al Lopez asked about the status of engine availability as the purchase has been put on hold. Ron is sure there is no danger of a shortage of engines in the near future.

**Next Meeting: Thursday October 22<sup>nd</sup>, 2015 2:00pm – 3:00pm**