

ASTM Chain Wear Task Force Meeting in San Antonio

Thursday 17th November, 2016

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Meeting Minutes:

- Operational review for all PM tests completed. The results show lab-oil interaction.
- The statistics group recommendations to the CW task force are included in the Power Point link below on slide 3.
- A chemistry review for IAR tests 93-0-26 and 93-0-40 was conducted. No differences in the chemistry were found. Test 93-0-26 had a result of 0.1572% and test 93-0-40 had a result of 0.1002%. Both tests ran on oil 270.
- SwRI ran another test with oil 270 on stand 27 with a new BB stack setup (copied the IAR setup). The result of this test had the highest severity shift so far, .0117%. An additional run on stand 29 with oil 270 resulted in 0.0119% with the same BB stack setup.
- A motion was passed and approved to run 2014 pistons beyond 6 runs. The pistons can continue to be used as long as they meet the specifications listed in the Ford assembly manual (piston to bore clearance) until the new 2016 pistons come in.



CW Task Force
Meeting 111716.pptx

Action Items

1. Compare break-in stretch on all PM tests. Data has already been provided.
2. LZ will send out chains for a Round Robin evaluation. Each lab will measure the chains and compare the results.
3. SwRI has agreed to run a test on oil 1011 with the new BB stack setup.
4. Take an oil sample at the end of stage 1. Labs need to meet to establish a procedure to do this. The purpose is to compare the oil analysis during stage 1 between labs.
5. Determine the dew point inside the engine during stage 1 and 2. Labs need to meet to discuss method and determine if it will be an actual or theoretical measurement.
6. Martin Chadwick to finish the PM ramp data review with emphasis on BB ramps. Include the BB ramps from IAR test 93-0-40 as a comparison to test 93-0-26 from the PM.
7. Each lab to report what method is being used for TAN and TBN (buffer/inflection point).
8. Labs agreed to save 2014 hardware after the 6th run in case extra runs are needed.

Hardware Update

- The lifetime piston purchase orders have been submitted to FCS. Estimated delivery is end of January 2017.
- Lab status on 2014 hardware:
 - LZ- no 2014 hardware available.
 - IAR- about 15 runs left on 2014 hardware.
 - SwRI- enough 2014 hardware to get into Feb 2017 along with 4 sets of 2014 pistons.
 - Afton- enough 2014 hardware for the rest of 2016.

Next Meeting :

- Teleconference 11/22/2016 @ 1-2pm CST