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Subject: RE: Ford Valve Train Wear Initial Task Force Meeting Minutes for 7/14/2020
Date: Wednesday, July 15, 2020 10:39:14

7/14/2020 Minutes:

Please let me know if there are any additions or corrections, thanks for your interest.

Attendees: Deegan, Romano, Smith, Campbell, Koglin, Brass, Lee, Wingert, Grosch, Breece, Murphy, Santos, Hind, Gao, Omole, Goodale, Gutzwiller, Loop, Starling, Girard, Cooper, Jarrett, Hopp, McLaughlin, Ramirez, Warden, Moyer, Whitacre, Clark, Jetter, Sutton.

Reviewed General Procedure:

Different from original for:

Removed (10) hour soot phase.

Wear phase soot targets at 0/100hr/200hr are 0%/3%/6% +/-0.5%

Open Crankcase

Two different fuels.

Op Data Discussion:

Noted QI on Intake air pressure on HWO at Intertek. Looking to remove the airbox to see if that removes issue.

Noted Torque loss over time from 1000Nm to ~950Nm. Both labs show similar drop. Ford to review internally for improved understanding of the loss over time.

Chemistry Discussion:

Met Soot windows for all (3) tests.

FE increase noted on the HWO tests at approx. 2% soot.

Wear Discussion:

Average Rocker Arm Mass still shows acceptable discrimination.

Reviewed individual Rocker Arm Mass.

Reviewed Average Push Rod Mass, discrimination still a question.

Other analysis for the lifter pin in process.

Precision Matrix Discussion:

Reviewed proposed (15) test Matrix with (3) engines and (3) stands at the (2) labs.

Additional proposed Matrix with (15) Tests on (3) engines with an additional (5) tests on another engine to further validate (2) fuels.

Core team needs to provide comparison of the (2) fuels to understand differences.

Other labs to look into local source to the D-975 fuel similar to SwRI.

No resolution with PM decision, further review required.

Tentative Test Agreement:

Follow current Draft Procedure with following changes:

No soot phase

Run Open Crankcase.

PC10 fuel.

The presentations are in the minutes folder here:

<http://www.astmtmc.cmu.edu/ftp/docs/diesel/ford/minutes/07.10/>

The data files are here:

<http://www.astmtmc.cmu.edu/ftp/refdata/diesel/fvtw/data/Operational%20Data/Revised%20Procedure%20200%20Hr%20Prove%20Out%20Testing/>

Previous released information:

Current Draft Procedure & new PDF of overall Procedure added 3/24/2020:

MailScanner has detected a possible fraud attempt from "urldefense.proofpoint.com" claiming to be

http://www.astmtmc.cmu.edu/ftp/docs/diesel/ford/procedure_and_ils/fvtw/draft/

http://www.astmtmc.cmu.edu/ftp/docs/diesel/ford/procedure_and_ils/

Data & PowerPoint from last (4) Tests based on above procedure:

<http://www.astmtmc.cmu.edu/ftp/refdata/diesel/fvtw/data/Operational%20Data/210%20Hr%20Prove%20Out%20Testing/>

Sincerely,

M. D. Deegan

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