

November 21, 2019

Caterpillar Surveillance Panel Teleconference Minutes

Conference Attendees:

Hind Abi-Akar, Mark Jarrett – Caterpillar
Jim Gutzwiller (Chairman), Elisa Santos, Gang Hu – Infineum
Josh Ward (Secretary), Tim Griffin, Tony Barrera – Intertek
Gary Hammer, Travis Kostan, Bob Warden - SwRI
Christian Porter - Afton
Alex Ebner – Lubrizol
Sean Moyer – TMC
Dan Lanctot – TEI
Barbara Goodrich – John Deere
Mesfin Belay – Daimler
Heather DeBaun – Navistar
Prasad Tumat - Haltermann

Agenda Items:

- COAT as alternative/replacement test for the EOAT in Legacy API “C” Categories
- Caterpillar parts update – Inventory reduction
- LED rating lights
 - Rating Workshop has generated data comparing Light Duty Piston Deposit Ratings using both LED and Fluorescent lights
 - Rating group has asked to allow the use of LED lights
- Alternative Fuel Supplier
 - How do we bring in an Alternative fuel supplier
 - What engine test types and how many Reference tests or labs would be required
- Any Old Business / New Business

Discussion:

- COAT Replacement of EOAT Discussion
 - Jim G and Elisa S presented the data from previous COAT tests on 1005-4 oil.
 - Previous COAT tests on 1005-4 oil were ran before the changes to the aeration measurement system were made, before batched oil filters were used, and before test precision improvements were made.
 - Future testing will be run on 1005-5 oil to establish equivalency with the EOAT. There is limited supply of 1005-4 oil left for testing.

- Funding for six tests will be requested from API. Testing is expected to begin first quarter of 2020.
- Current proposal would not require oils that ran the EOAT for CH, CI, and CJ category certifications to re-run the oil in the COAT test. They will be grandfathered in.
- Caterpillar Parts Update
 - 1Y0692 1K/1N Crankshaft 98pcs
 - 1Y7985 1M Crankshaft assembly 15pcs
 - 1Y0559 1K/1N Cylinder head assembly 100pcs
 - CAT has reduced prices on these parts in order to reduce their inventory. Parts will be scrapped to reduce inventory if not purchased.
- HD Rating with LED Lights Discussion
 - Jim G presented the TMC memorandum 19-022 document which contains the PCMO rating data and analysis used to validate the switch to LED lighting.
 - PCMO has approved use of LED lights to replace the fluorescent bulbs which are no longer available. Rating data generated during the 2019 light duty rating workshop showed comparable mean and standard deviation results between the two light sources.
 - Concern was raised about rating 2nd ring carbon deposits on the C13 with the LED lights. Tony B will coordinate a round robin between the labs to rate C13 2nd ring carbon. Labs will send results to Sean M at the TMC. Targeting mid-January 2020 to have results ready to present to SP.
- Alternative Fuel Supplier Discussion
 - Adding an alternate fuel supplier for PC-9 and PC-10 fuels was discussed at length.
 - A small group from the CAT SP will have a call to discuss requirements to bring in an alternate fuel supplier on 12/06/19.

Actions:

- Request funding for x6 COAT tests from API for EOAT equivalency testing.
- Conduct round robin on C13 2nd ring carbon ratings and review results. Expected mid-January 2020
- Conference call to discuss alternative fuel supplier on 12/06/19.