

Cummins SP Minutes of the June 6, 2012 Teleconference

Attendance

Jim Moritz, Jeff Clark, Sean Moyer, Zack Bishop, Shawn Whitacre, Corey Trobaugh, Jim Matasic, Jim Rutherford, Elisa Santos, Jim Gutzwiller, Scott Richards

Cam Supply Update - Zack Bishop and Cory Trobaugh

TEI recently received four crates of Batch H cams (72 cams per crate); there were 62 useable in the first crate; the cams in the second through fourth crates showed chatter and ding marks. Cory Trobaugh had some of the cams examined and they found raised metal on the dings and chatter marks. This is part of a larger quality issue with the cam supplier. The cam supplier has agreed to replace the unacceptable cams and will also add 305 to the 185 reject count which will result in 490 cams (to be designated as Batch J). These will be produced in a single run and will undergo QC to make sure the problem is not repeated. There is currently about a two month supply at TEI. Cummins will advise as to the timing of the Batch J production.

There was brief discussion on how to introduce the Batch J cams. General consensus was to bring them in with reference tests (reference periods to be adjusted as needed per standard practice of no net gain/loss) and the panel will consider how to do this in a future discussion. It was noted by several members that the 18 month calibration time period may be too excessive to adequately monitor the test once the cams are introduced. The ISB calibration period will be re-examined as part of the Batch J introduction discussion. It was noted that the ISM once had an 18 month period, but that was shortened to 12 months due to similar concerns.

Low Viscosity Reference Oil(s) - Request from NCDT

The following excerpt is from the NCDT meeting minutes of May 3, 2012:

The Funding Group also recommends that the Surveillance Panels for existing tests consider how lower viscosity oils, including a VGRA matrix, could be worked into routine stand referencing and calibration, and if this could be funded within normal Surveillance Panel activities. If additional funds were to be needed, it was recommended that the funding process outlined above for new tests be used. The PC-11 NCDT asked Dan Arcy, as Chair, to request the appropriate Surveillance Panels for existing tests to define, by the June 2012 PC-11 NCDT meeting, a testing process by which the lower viscosity oils and VGRA could be evaluated within planned stand referencing and calibration.

The Cummins panel discussed this request, at the conclusion of which, the following actions were agreed to:

- Jim Moritz will reply to the NCDT that this request cannot be worked into the standard referencing system and additional funding would be needed to satisfy the desire for lower viscosity reference oils for the ISB and ISM tests.
- The TMC will contact the reference oil suppliers for 830 and 831 to see if it is possible to blend lower viscosity versions of those oils. Ideally these would be same DI and anti-wear properties

with possible changes in base oil and/or VM. There was a desire for HTHS to be 2.9 - 3.1 (or supplier to advise what may be possible. The initial quantity requested would be for five tests worth of oil

Parts Supply (other) Update - Zack Bishop

New ISB rocker arm and rocker level shafts will be arriving soon at TEI.