

Cummins Surveillance Panel Meeting Minutes

November 15, 2024 13:00-14:00 CST

Participants:

Afton – Joe Hoehn, Amanda Stone

Chevron Oronite – Marnix Torreman, Josephine Martinez

Cummins – Phil Shelton, Wei Qin

ExxonMobil – Mike Shea

Infineum – David Brass, Andrew Smith

Intertek – Joshua Ward (Chairman), Greg Dannheim

Lubrizol – Austin Brininger, Jonathan Bolaney, Robert Slocum

SwRI – Joe Moore, Robert Warden

TEI – Dan Lanctot

TMC – Sean Moyer

Agenda:

- ISB Hardware and New Reference Oil Testing
- ISM Hardware Availability
- ISM New Reference Oil Results

ISB Hardware and New Reference Oil Testing:

- New hardware kits are now available, approximately 250 kits in this batch.
- Turbos are now available in dealer network.
- Matrix Progress:
 - IAR starting end of next week.
 - LZ has completed both runs.
 - SwRI has completed 1 run, second around 200 hours in.
- There is a possibility to regrind rejected camshafts which could net another batch worth.
 - It's possible that regrinding would just show more pits.
 - The cost of a casting needs to be investigated, the cost of casting 1000 new cams might be low enough to make regrinding ineffective.
 - TEI and Cummins will have 2 crates (70 total cams) reground to see if it's a worthwhile option.

- Turbocharger part number has been superseded. 21 are currently built and will be shipped to TEI for lab purchasing. TEI will allocate turbos by number of kits sold.
 - Approximately a 3 month lead time for a new order from the Charleston plant.
 - New part number is 2887149RX, Phil will pass along details of the part changes to the panel.
 - IAR has gotten a couple, only change seems to be the actuator arm.

ISM Hardware Availability:

- New adjusting screws are the only part missing.
 - Availability date will be confirmed Monday the 18th.
- TEI has 89 kits worth of current batch adjusting screws, 12 kits have been held for the new RO matrix.

ISM New Reference Oil Results:

- Results for proposed reference oil have been received.
 - IAS wear is very high in presented results.
- TMC will reach out for more details to be reviewed on the next call.

Motion: Extend current stand intervals for up to 6 months or 6 tests to ensure test availability during the current hardware shortage. There will be no net gain or loss of reference interval.

Bob Warden motions, Sean Moyer seconds.

Yes - Afton, Oronite, Cummins, Exxon, Infineum, IAR, LZ, SwRI, TEI, TMC

Motion passes.

Motion: The panel instructs TEI to release hardware for coordinated referencing using new batch hardware aside from the adjusting screws which are current batch. Crossheads will be batch H, Injector push rods will be batch D, Injector adjusting screws will be batch E (current). Reference tests will start on or before December 15th, 2024. The surveillance panel will review results prior to acceptance for use in candidate testing.

Bob Warden motions, Josh Ward seconds.

Yes – Afton, Oronite, Cummins, Exxon, Infineum, IAR, LZ, SwRI, TEI, TMC

Motion passes.

Next Steps:

- Panel to review data from proposed ISM RO supplier
- Panel to discuss ISM injector screw lead time.
- Lab engineers to meet to list out needed Calterm parameters.

Next Meeting: Late next week, Josh to send out poll.