

Cummins Surveillance Panel
ISB (ASTM D7484)
ISM (ASTM D7468)
6/13/2024

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Agenda

- ISB Hardware Status Update
- ISB Reference Oil Update
- Reference Extension Limits
- Action Items

ISB Hardware Status

- Current Batch fully allocated to labs by TEI
- New Hardware Batch
 - 8500 Tappets have arrived to TEI
 - Estimated hardware to be received:
 - 1000 Camshafts (Estimated arrival in August)
 - 10000 Crossheads (need to review rejection criteria)
 - 8000 Pushrods
- Goal
 - Bring in a large multi-year batch of all hardware to get the test through PC12 introduction
- New block part numbers have been received

ISB Reference Oil Update

- Approximately 200 gallons of current 831-4 remaining
- 831-5 is available
- New RO available at TMC for distribution to labs
- New Oil Target Matrix
 - 8 Tests
 - 4 Stands, 2 per stand
 - CURRENT HARDWARE
 - Must quarantine 12 current batch kits
 - Use current batch because of need for accurate CF's to properly set targets for new reference oil with hardware tieback
 - New hardware introduction will be separate from precision matrix
- SP Intention is to use only the new reference oil moving forward

ISB Reference Oil Update

- Need participating labs to send me when they expect to be able to start the matrix by end of day Tuesday 6/18 for NCDT update at ASTM
- No net gain/loss of reference time for new reference oil introduction and new hardware introduction testing
- Motion

Reference Extension Limits

- Current Procedure

9.9.2 Parts and Fuel Shortages—Under special circumstances, such as industrywide parts or fuel shortages, the Surveillance Panel may direct the TMC to extend the time intervals between reference oil tests. These extensions shall not exceed one regular calibration period.

- Possible Update

*9.9.2 Parts and Fuel Shortages—Under special circumstances, such as industrywide parts or fuel shortages, the Surveillance Panel may direct the TMC to extend the time intervals between reference oil tests. These extensions shall not exceed **half of a** regular calibration period.*

- Pay back over multiple calibration periods?

ISB New Hardware Introduction

- New hardware must be brought in on a reference in each stand
- Plan to use new reference oil on these tests
- Rolling change, let SA's take care of any possible CF shift until enough references are ran to analyze for possible CF change
- This gives labs some leeway on when to reference, given the multitude of reference tests that will be needed this year

Action Items

- Need a volunteer to run proposed RO on the ISM
 - Donated “Prove-out” run can be used as donated matrix test if results are favorable and oil is chosen
 - ASTM is funding the matrix, so timing is important
- Engine Labs
 - Need to schedule a meeting to discuss creation of a standard parameter list for Calterm screen files necessary for ISB and ISB Viscosity testing
 - Please put together a necessary parameter list in preparation for this meeting to be scheduled in the near future
 - New ECMs to be set up based on this parameter list

Concluding Remarks

