**ISB Viscosity Work Group Meeting**

**December 4, 2024, 09:00-10:00 CST**

**Participants:**

Afton – Joe Hoehn,

Cummins –

Infineum – Andrew Smith, Jacob Goodale

Intertek – Josh Ward, Gregory Dannheim

Lubrizol –

SwRI – Joe Moore, Robert Warden

TMC – Sean Moyer

**Agenda:**

* BOI/VGRA Matrix Updates
* Procedure Updates
* Procedure Change Recommendation from Infineum

**BOI/VGRA Matrix Updates:**

* SwRI will complete run 5 tomorrow, anticipated to complete first week of January.
* IAR about halfway through run 2, anticipated to complete mid-February.
* BOI/VGRA group has asked that some oils be reported with the 108-hour severity adjustments.
  + Sean will send out which test keys need the change to labs later today.

**Procedure Updates:**

* Form 1 of the report currently does not have a box for 108-hour MRV validity separate from the 156-hour full test validity.
  + This was talked about in the in-person meeting but never decided on.
  + Bob will ask Sean to change the validity box to separate out the MRV from ISBV.
* The issue is that a test can be valid for the MRV at 108 hours but not for the 156-hour ISBV test. This is stated in the procedure but not explicitly shown in the test report.
* There is a new revision (Rev18) posted.
  + Non-essential referenced procedures have been removed.
  + Some photos have been updated.
  + QI upper and lower limits are currently set at values the group come up with earlier in test development.
    - Subject to change, work group can review precision matrix operational data.
    - Fuel temperature limits may be too tight.

**Procedure Change Recommendation from Infineum:**

* As procedure is currently written, there is a possibility for oils to pass the test but be deemed invalid due to stopping early due to oil filter plugging/high delta viscosity.
  + This situation would occur is an oil broke just after passing the limits.
* There have been 3 acceptable calibrations (so far) that had delta viscosities of over 140 cSt
* Propose to add a soot window at 132 hours and add language to allow a test to be valid if terminated between 132 and 156 hours after exceeding the test result requirements (4, 12, and 15 cSt delta viscosity).
* Andrew will send out the proposed verbiage for feedback/edits. Conversation will continue, no vote needed/asked for at the moment.

**Next Steps:**

* Continue the conversation on the proposed change to the procedure.
* Labs to review precision matrix operational data for QI limits and bring any concerns to the group.
* Review of operational data for LZ mild runs at next meeting.

**Next Meeting:** 12/18/2024 at 0900 CST