

Cat Aeration Task Force Meeting

April 28, 2015

Conference call meeting

Attendees: Names Highlighted in **Yellow** attended the meeting

Participant	Name	Email	
1	Caroline Laufer Elisa Santos Pat Fetterman James Gutzwiller Bob Salgueiro	caroline.laufer@infineum.com elisa.santos@infineum.com pat.fetterman@infineum.com james.gutzwiller@infineum.com bob.salgueiro@infineum.com	Infineum
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7	Jason Bowden Matt Bowden	jhbowden@ohtech.com	OHT
8 Yes	Mark Jarrett Hind Abi-Akar Hatuey Campbell Beth Sebright	jarrett_mark_w@cat.com abi-akar_hind@cat.com	Caterpillar
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20	Greg Shank	greg.shank@volvo.com	Volvo
21	Dan Arcy	Dan.arcy@shell.com	Shell
22	Heather Debaun		Navistar

Executive Summary:

The Task Force voted on the following motion

Motion by Sean seconded by Martin: Reference period is defined as every 6 months or the referencing cycle, whichever comes first.

Objections: none

Waives: TEI

Motion passes.

Actions:

Sean will write the verbiage for the procedure.

Sean will communicate with the labs and send TCRs and verification of testing

Definition of a New Stand: Any stand that is previously calibrated is not a new stand

Details:

Background:

Prior referencing plan as agreed to in the face-to-face meeting in Wickliffe, OH and as shared at the March 27, 2015 NCDT meeting:

- Calibration periods: The preferred ratio of the two oils K:G is 2:1.
 - 1st period = 2 candidate tests
 - 2nd period = 4 candidate tests
 - 3rd period = 6 candidate tests
 - 4th period and subsequent = 9 candidate tests
- Brand New Stand (3 tests to begin)
 - Reference oils K, G, K
- Rebuilt or new engine with existing stand (2 tests to begin)
 - Reference oils K, G
- Critical components replaced
 - Terminate current calibration period. Run Reference oil K and restart the calibration period.
 - Example: if a component is changed in the 4th period after 3 tests. Run the reference oil K then go back to the beginning of Period 4.
 - Critical components: Included in the procedure.
 - Examples: micromotion, research valve (regulator), heated line

Discussion

I- Time period for referencing: this was not specified in the current plan

- Referencing is based on the following:
 - Number of runs
 - Months since referencing
- Discussion: should the time for referencing be 6 versus 9 months (discussed earlier)
 - 6 months is proposed based on the sensitivity of the test (need for tight controls for this engine.)
- This period can be revisited in the future to determine if any changes are needed
- If not many oils are run, then ensure that volumes of the reference oils are adequate.

Refer to the vote result in the Executive Summary section.

II- **Current Calibration Period:** For the current test stands, what calibration period should they start at.

- The stands are now at the 9 candidate test stage

III- **ACC tests:**

For the ACC tests, 18 total, labs are in the candidate stage; tests will be divided among the test stands.

- These tests have to run on a calibrated stand

Potentially, all stands can reference at the start and then run the tests.

Watch as the decision on these tests is finalized and react/discuss accordingly.

IV- **Aeration test procedure**

The procedure has been reviewed multiple times by a small group/subset of the TF. At this time the procedure is with Terry Bates for editing.

- Proposed: Incremental release of the procedure. Draft is on the website until it is an approved standard (draft sent following the last meeting).

V- **Reference oil test**

Hind suggested one more reference oil test to supplement the current data. This would allow better understanding of the limit.

Sean stated that 1005-4 is available: 150 gallons. Need to keep some; but one test can be run.

VI- **Limits discussion**

The group stated that any information on the limit is helpful. However, it was also stated that limits can be set at the end of the tech demo and should not slow down the tech demo period. Data from the tech demo can help in limit setting.