

Rich Grundza

From: Glaenzer, Dave [Dave.Glaenzer@AftonChemical.com]
Sent: Wednesday, March 14, 2012 1:56 PM
To: Angela Willis; Bruce Matthews; Charlie Leverett; Dan Worcester; Don Smolenski; Glaenzer, Dave; Jason Bowden; Jerry Brys; Jim Linden; Johnny De La Zerda; Liping (Lee) Wang; Mark Mosher; Matthew Snider; Porter, Christian; Rich Grundza; Ron Romano; Tim Caudill
Cc: Dvorak, Todd; Campbell, Bob; Altman, Ed; Hoffman, Terry
Subject: Sequence VID Test Quality Task Force Minutes 03/13/2012

Unapproved Minutes

The Sequence VID Test Quality Task Force held its initial meeting via teleconference on March 13, 2012.

Those on the call included:

Bruce Matthews, Matthew Snider, Jeff Kettman, Liping Wang and Angela Willis of GM
Charlie Leverett and Johnny De La Zerda of Intertek
Dan Worcester of Southwest Research Institute
Jason Bowden and Dwight Bowden of OH Technologies
Jerry Brys of Lubrizol
Jim Linden representing Toyota
Mark Mosher of ExxonMobil
Richard Grundza of ASTM-TMC
Ron Romano of Ford
Tim Caudill of Ashland
Christian Porter, Todd Dvorak, Terry Hoffman, Ed Altman and David Glaenzer of Afton Chemical.

The meeting started with a review of the proposed Scope and Objectives as reviewed by Leverett, Snider, Matthews and Glaenzer.

The Scope and Objectives was accepted by the Task Force as follows:

Scope and Objectives

1. Examine ASTM D7589 for ambiguities in and opportunities for improvement to stand set-up and operation of the procedure.
2. Define experiments where necessary to understand optimum conditions for potential changes.
3. Conduct experiments to verify potential changes are producing desired output.
4. Report to Surveillance Panel monthly with final report due before November, 2012.

The Task Force reviewed a number of ideas for test improvement. These items, as well as any others brought forward will be prioritized and expanded at our face-to-face meeting on March 28. The Task Force chairman will be looking for members to spearhead activities in one or more areas.

Break-In Procedure

Consider alternate temperatures for coolant and oil.
Review historical (VIA & VIB) break-in procedures.
Consider some measure of stability of process to determine end of break-in.
Other concerns to be brought forward.

Stabilization of process prior to and during BSFC measurement routine

Consider alternate temperature set-point strategies.
Consider longer stabilization times prior to BSFC measurement routine.
Consider use of Quality Index type system during BSFC routine.
Several labs expressed their concerns with attaining temperatures when transitioning from Stage 4 to 5 and 5 to 6.

External oil system plumbing

Standardize oil lines on suction side of engine oil pump.
Concerns with use of larger lines and effective running level in oil pan.
GM working internally to understand engine needs.

Engine Coolant Mixture

Move to 50/50 or 60/40 mix of Dexcool®/water due to safety (flammability) concerns.
Standardize on fluid for calibration of flow device.

Engine Oil Filter

Differences noted between Racor stock and OHT modified filter relative to relief ball seat location/spring retaining device distance.
Two relief valve springs allowed, stock set-up and tell-tale switch; each provide for different opening pressures.
Suitability of 28 micron filter screen for engine oil. Literature suggests 60 micron more widely used.

Flushing Oil Carry-Over to BLA

Elevated levels of Calcium noted in BLA sample compared to BLB1 or BLB2 samples at Afton.
Flush effectiveness data pulled at Intertek may also indicate detergent carry-over to BLA.

Other labs to draw BLB1, BLB2 & BLA samples as time allows prior to March 28 meeting.
Intertek volunteered to run flushing procedure and sample following every oil change.

Let me know if I forgot anything.

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