

HEAVY-DUTY ENGINE OIL CLASSIFICATION PANEL
OF
ASTM D02.B0.02
November 11, 2004
The DoubleTree Hotel – Rosemont, IL

THIS DOCUMENT IS NOT AN ASTM STANDARD; IT IS UNDER CONSIDERATION WITHIN AN ASTM TECHNICAL COMMITTEE BUT HAS NOT RECEIVED ALL APPROVALS REQUIRED TO BECOME AN ASTM STANDARD. IT SHALL NOT BE REPRODUCED OR CIRCULATED OR QUOTED, IN WHOLE OR IN PART, OUTSIDE OF ASTM COMMITTEE ACTIVITIES EXCEPT WITH THE APPROVAL OF THE CHAIRMAN OF THE COMMITTEE HAVING JURISDICTION AND THE PRESIDENT OF THE SOCIETY. *COPYRIGHT ASTM, 100 BARR HARBOR DRIVE, WEST CONSHOHOCKEN, PA 19428-2959.*

ACTION ITEMS

- | | |
|--|-----------------------------------|
| 1. Recommend T-10 limits for T-9 performance. (Left Over) | Mack Surv. Panel & EMA |
| 2. Exit Ballot on ISM inclusion in PC-10 | Jim McGeehan |
| 3. Continue data collection and discussion of 1P v 1K/1N | Infineum and Others |
| 4. Discuss 820 as a T-12 matrix oil. | Interested parties |
-

MINUTES

- 1.0 Call to Order
- 1.1 Chairman Jim McGeehan called a meeting of the Heavy Duty Engine Oil Classification Panel (HDEOCP) to order at 8:09 a.m. on November 11, 2004 in the DoubleTree Hotel of Rosemont, Illinois. There were 18 members present or represented and approximately 17 guests present. The attendance list is shown as Attachment 2.
- 2.0 Previous Meeting Minutes
- 2.1 The minutes of the September 29, 2004 meeting were amended per Tom Cousineau as follows: The first sentence of section 7.21 should have the words "in the field" added to its end, to clarify the source of Cummins concern. In section 8.4, the "CF" should be "CF-4".
- 2.2 Dave Stehouwer moved that the minutes of the 9/29/04 meeting be approved as amended, seconded by Heather DeBaun. The amended minutes were approved by unanimous voice vote.
- 3.0 Membership
- 3.1 Mary Graham of ConocoPhillips sent a letter conveying her resignation from the HDEOCP and requesting that David Taber of ConocoPhillips take her place. Mr. Taber was introduced and welcomed, with thanks to Mary for her participation.
- 4.0 Agenda
- 4.1 The published agenda (Attachment 1) was reviewed and Becky Grinfield requested an earlier slot for travel considerations.

5.0 Elastomer Compatibility Test Method

- 5.1 Becky Grinfield reviewed concerns with the Elastomer Test Method (see Attachment **3**). Presently, the specification limits contained in D4485 are adjusted by the method to produce "acceptance" limits, which reflect current test variability. Becky proposed: 1.) To accept the concept of an Annex to D4485 (see Attachment **3A**), which explains how the elastomer specification limits are adjusted, forming the "acceptance" limits. The annex would take the place of an extensive footnote. 2.) To allow the Elastomer Surveillance Panel to finalize the wording of the proposed annex and then move it forward for "B" ballot. Lew Williams seconded the motion, which passed via unanimous voice vote.
- 5.2 Becky also reviewed data obtained by the surveillance panel and the TMC on the performance of Vamac, along with potential specification limits for Vamac (see Attachment **4**).

6.0 PC-10 NCDT

- 6.1 Bill Runkle presented the NCDT report on PC-10 (see Attachment **5**) and noted that the API LC wants the category delayed if necessary, to include the C13 unless Caterpillar withdraws the C13 as a service requirement.

7.0 PC-10 Matrix Funding and Design

- 7.1 Steve Kennedy reported that Funding Task Force had agreed to sufficient in-kind contributions from the engine manufacturers to permit the full \$1,000,000 contributions each from the ACC and API. The total contributions from the ACC, API, EMA and test laboratories will allow a precision plus BOI matrix to be run for the C13 and precision only matrices for the ISB and T-12 tests. See Attachment **6**.

8.0 Matrix Oils

- 8.1 Greg Shank noted that EMA has selected two additive technologies for use in blending the matrix oils. See Attachment **7**.

9.0 1P – 1K/1N Comparison

- 9.1 Bill Kleiser reviewed 1P/1K data from the same oils and concluded that passing the 1P test insured passing the 1K test (see Attachment **8**).
- 9.2 Charlie Passut reviewed more 1P/1K data (see Attachment **9**) with much the same observation...passing the 1P, an oil would pass the 1K.
- 9.3 Both Bill and Charlie felt there was insufficient 1P/1N data to analyze.
- 9.4 Joan Evans agreed to send more 1P data to Jim McGeehan and this item will be on the December meeting agenda.

10.0 PC-10 Test Development Updates

- 10.1 Greg Shank reported on T-12 progress and displayed some 820-2 results (see Attachment **10**). He indicated there will soon be four or five labs with T-12 installations and there will be at least six stands. There was some discussion on the use of 820-2 as a matrix oil, so this topic will be part of the December agenda.
- 10.2 Dave Stehouwer reported on the ISM and ISB (see Attachment **11**). The ISM Task Force feels the test has shown the ability to discriminate with sufficient precision on wear and filter plugging, to proceed with an exit ballot before the December meeting. Dave proposed and Greg Shank seconded a motion that an exit ballot on including the ISM in PC-10 be conducted before the December meeting. The motion passed via unanimous

voice vote. For the ISB, the task force expects four tests to complete by Dec. 6, using oils 1004 and 830.

- 10.3 Abdul Cassim reporting on C13 progress, indicated the task force has decided to stop using simulated CCV, but to keep using ULSD fuel (see Attachment **12**). The task force is still working on developing discrimination data.
- 10.4 Joan Evans requested that the decision on including a Sequence III test (F or G) in PC-10 be postponed until sufficient T-12 data is accumulated (see Attachment **13**). An e-mail from Bill Nahumck (Attachment **14**) indicates there should be sufficient Seq. III parts available to support testing through at least 2008. Jim Mcgeehan also requested that decision on a PC-10 oxidation test be postponed until more data is available from the C13 and T-12 tests (see Attachment **15**).
 - 10.4.1 Joan Evans moved and Bill Kleiser seconded a motion that the HDEOCP wait to decide on an oxidation test for PC-10 until data becomes available from other tests under development. The motion passed with 17 for, 0 against and 0 abstain.
- 11.0 PC-10 Fuel Supplier Selection
 - 11.1 Jim wells reported for the PC-10 Fuel Supplier Selection Task Force (see Attachment **16**). The task force recommended Supplier 2 and Abdul Cassim seconded the recommendation. Supplier 2, who is ChevronPhillips, was accepted via unanimous voice vote.
- 12.0 Other Business
 - 12.1 Abdul Cassim updated the panel on the status of 1P cylinder liners (see Attachment **12**). Cat expects to have a new supplier on board by the second quarter of 2005.
- 13.0 Next Meeting
 - 13.1 The next meeting is scheduled for December 7, 2004 in Tampa, FL. There might be an additional session on Dec.6, if needed. Following the meeting in Tampa will be a meeting in San Antonio on Jan. 13, 2005.
- 14.0 Adjournment
 - 14.1 This meeting of the HDEOCP was adjourned at 11:53 a.m.

Submitted by:

Jim Wells,
Secretary to the HDEOCP