

HEAVY-DUTY ENGINE OIL CLASSIFICATION PANEL OF

ASTM D02.B0.02

February 19, 2004

DoubleTree Hotel – O'Hare, Rosemont, IL

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ACTION ITEMS

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| 1. | Recommend PC-10 fuel supplier by 12/04. | PC-10 Fuel Source T. F. |
| 2. | Accelerate Mack T-11 Test Procedure toward standard. | D02.B0 |
| 3. | Add Seq. IIIG as an alternative to Seq. IIIF in "C" categories. | D02.B0 |
| 4. | Data supporting consolidation of CAT single cylinder tests. | Any who have data |
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MINUTES

- 1.0 Call to Order
 - 1.1 Chairman Jim McGeehan called a meeting of the HDEOCP to order at 8:02 a.m. on February 19, 2004, in the DoubleTree Hotel of Rosemont, Illinois. There were 17 members present or represented and approximately 11 guests present. The attendance list is shown as Attachment 2.
- 2.0 Agenda
 - 2.1 The published agenda (see Attachment 1) was reviewed with no suggested changes.
- 3.0 Previous Meeting Minutes
 - 3.1 Chris Laroo wanted to clarify and expand on EPA considerations regarding dye colors for future fuels, as an amendment to paragraph 6.1 of the Dec. 9, 2003 HDEOCP minutes. His requested expansion is included here as Attachment 3.
 - 3.2 Lew Williams moved and Dave Stehouwer seconded that the Dec. 9, 2003 minutes be approved as posted on the TMC web site and now amended. The motion passed via voice vote.
- 4.0 Membership
 - 4.1 Michael Weismiller replaces Glen Mazzamaro of CIBA. See Attachment 4.
- 5.0 Chairman's Comments
 - 5.1 Chairman McGeehan expressed his feelings that the CI-4 Supplement activity is sucking the air out of PC-10 efforts. His slides (Attachment 5) review what's been done, what needs to be done and the time available now versus what it has taken in the past. Ensuing discussion from the floor again emphasized proceeding with only those tests that are ready by the end of 2004.

6.0 PC-10 Matrix Funding

- 6.1 Steve Kennedy reported that the PC-10 Matrix Funding Task Force had met on Feb. 18, 2004. Due to the still large number of unknowns, they have not made much tangible progress. But, positions and strategies are being established to help speed the process when more is known about the matrix.

7.0 PC-10 Chemical Limits

- 7.1 Rick Finn reviewed the task force status (Attachment 6). Since they do not have much data yet, they have extended the data submission deadline to the end of March and they will try to meet in mid-April.
- 7.2 Mike Lynskey presented some slides (Attachment 7) covering a Castrol study of oil ash effects on diesel particulate filters.

8.0 PC-10 Fuel

- 8.1 Steve Kennedy proposed and Greg Shank seconded that a single source be chosen for PC-10 ULSD fuel. The fuel specification has already been developed, but the fuel and a source must be available by January 2005. The motion passed with 16 votes for, 0 against, 0 abstain.
- 8.2 Steve Kennedy proposed and Bill Runkle seconded that PC-9 fuel be carried forward for use in those PC-10 tests requiring 300 – 500 ppm Sulfur fuel. The motion passed via voice vote.

9.0 PC-10 Timeline

- 9.1 Bill Runkle reviewed the PC-10 timeline and noted that it is unchanged from the December meeting. See Attachment 8.
- 9.2 Lew Williams presented a timeline which adds a six month window after the matrix tests for technology demonstration (see Attachment 9) before limits for the tests are set. There was lots of discussion in regard to this potential addition. One idea that surfaced was to establish a range for parameter limits in June of 2005 and then finalize the limits in December. Discussion on this topic is sure to continue.

10.0 PC-10 Test Development

10.1 Cummins ISM

- 10.11 Warren Totten reported the initial ISM matrix tests are to start in March, using oil ISM(A) and reference oils 1004, 1005 & 870-2.

10.2 Cummins ISB

- 10.21 Warren also presented an update on the ISB test development. See Attachment 10.

10.3 Caterpillar C13

- 10.31 Abdul Cassim reported on the C13 test development status. Two tests have completed and four are in progress with scheduled completion by March 15. A Task Force meeting is planned for March 24 to review the data.

10.4 Mack T-12

- 10.41 Greg Shank reported on the T-12 test development and indicated they plan to generate about 5% soot in the oil and run with a 260 °F oil gallery temperature. See Attachment 11.

- 10.42 Since he already had the floor, Greg reviewed the T-11 status (see Attachment 15). He then proposed and Warren Totten seconded that the T-11 test be accepted as an ASTM procedure and moved forward to becoming a standard. The motion passed with 16 for, 0 against, 0 abstain. This will permit ACC to consider registration for T-11 candidate tests.
- 11.0 PC-10 Matrix Design Task Force
- 11.1 Chairman McGeehan asked for a volunteer to chair the Matrix Design Task Force. No one volunteered, but after some gentle arm twisting, Steve Kennedy agreed to accept the challenge.
- 12.0 Sequence III G for III F
- 12.1 Bill Kleiser made and Lew Williams seconded the following motion: A passing Sequence III G, GF-4 viscosity increase may be used as an alternative for a passing Sequence III F viscosity increase, anywhere the Sequence III F is required in a "C" category. After significant discussion, the motion passed with 13 votes for, 1 against and 2 abstains. This action now needs to move to D02.B0 for ballot approval of inclusion in D4485.
- 13.0 CI-4 Supplement
- 13.1 Steve Kennedy reported on the status of the CI-4 Supplement, see Attachment 12. Other than finalizing exactly what tests will be included, the major task remaining is to resolve the request for a 10 TBN new oil minimum. The next DEOAP meeting is scheduled for April 1, 2004.
- 13.2 Dave Stehouwer presented Cummins data behind their request for a 10 TBN minimum for the CI-4 Supplement oils. See Attachment 13. There was significant discussion after the presentation, but no apparent resolution.
- 14.0 Caterpillar Single Cylinder Tests
- 14.1 Abdul Cassim made a presentation on CAT single cylinder tests (see Attachment 14) and asked for any available data which might indicate newer tests could be substituted for older tests as an alternative. The CAT Surveillance Panel should ask RSI / ACC for data. CAT wants to get out of the older engine parts supply business.
- 15.0 Next Meeting
- 15.1 The previously scheduled meeting for April 15th has been postponed to May 18, 2004, still at the Rosemont DoubleTree Hotel.
- 16.0 Adjournment
- 16.1 The meeting was adjourned at 12:18 p.m.

Submitted by:

Jim Wells
Secretary to the HDEOCP