

**HEAVY-DUTY ENGINE OIL CLASSIFICATION PANEL**  
**OF**  
**ASTM D02.B0.02**  
**February 23, 2005**  
**Southwest Research Institute, San Antonio, Texas**

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**ACTION ITEMS**

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| <b>1. Distribute additional T-12 data to panel, when available.</b> | <b>Jim McGeehan</b> |
| <b>2. Issue "Exit Ballot" on C13 matrix readiness.</b>              | <b>Jim McGeehan</b> |
| <b>3. Add "Oil D" to the C13 matrix oils.</b>                       | <b>PC-10 MDTF</b>   |
| <b>4. Issue "Exit Ballot" on T-10 limits for T-9.</b>               | <b>Jim McGeehan</b> |
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**MINUTES**

- 1.0 Call to Order
- 1.1 The Heavy Duty Engine Oil Classification Panel (HDEOCP) was called to order at 8:19 a.m. by Chairman Jim McGeehan on Wednesday, February 23, 2005 in conference room 103 of Building 209 at Southwest Research Institute in San Antonio, Texas. There were 19 members present or represented and there were approximately 27 guests present. The attendance list is shown as Attachment 2.
- 2.0 Agenda
- 2.1 The published agenda (Attachment 1) was reviewed and agreed upon.
- 3.0 Previous Meeting Minutes
- 3.1 Minutes of the January 13, 2005 meeting as circulated and posted to the TMC web site, were approved via voice vote on a motion to approve by Abdul Cassim and Dave Stehouwer.
- 4.0 Membership
- 4.1 There were no changes in membership.
- 5.0 Matrix Oils
- 5.1 John Zalar reported that these oils were scheduled to start arriving at TMC by the end of February.
- 6.0 PC-10 Matrix Design & Funding

- 6.1 Steve Kennedy reported that the PC-10 matrix Memorandum of Agreement (MOA) was out for review and that comments need to be returned by March 4, 2005, along with final test costs.
- 7.0 PC-10 Tests Development
  - 7.1 Greg Shank reported on the Mack T-12, see Attachment 3. The T-12 Task Force is still gathering data and Greg asked Jim McGeehan to distribute the additional data to the HDEOCP after their March 17 task force meeting.
  - 7.2 Dave Stehouwer reported on the Cummins ISM, see Attachment 4. Wim VanDam reviewed the request for soot correction on the crosshead and injector screw weight loss measurements. Industry statisticians have been asked to rework the ISM data taking into account soot corrections and lab severity. The task force plans to meet again on March 22, 2005 to review the adjusted data and work on ISM / M-11EGR correlation data.
  - 7.3 Dave also reported on the Cummins ISB, see Attachment 4. Concern was raised about the results from one of the labs, but the task force thinks the problems have been addressed. There was also concern that perhaps results should be corrected for soot level. The task force plans to meet in conjunction with the ISM meeting.
  - 7.4 Tom Franklin reported on the Caterpillar C13, see Attachment 5. The task force recommends proceeding to an exit ballot for matrix testing the C13 and they recommend including "Oil D" as a matrix oil. Greg Shank moved and Dave Stehouwer seconded that an exit ballot be issued to approve matrix testing the C13, once all operational data is posted to the TMC web site. The motion passed with 18 for, 0 against, 0 abstain. Rick Finn moved that the PC-10 Matrix Design Task Force add "Oil D" as one of the C13 matrix oils if that can be done without seriously compromising base oil interchange data. Robert Stockwell seconded the motion which passed with 18 for, 0 against, 0 abstain.
- 8.0 Piston Temperatures – 1N
  - 8.1 Heather DeBaun reviewed the additional piston temperature data, see Attachment 6. Greg Shank moved that based on this current piston temperature data, the 1N test should be included as part of PC-10. Ken Chao seconded the motion which passed with 17 for, 1 against, 0 abstain. Caterpillar assured the panel parts would remain available.
  - 8.2 Discussion then turned to whether the 1P test should be included in PC-10. This issue appears to presently be in the NCDT court.
- 9.0 Valve Train Wear Task Force
  - 9.1 Heather DeBaun has agreed to chair this task force in place of Mark Sarlo. Heather reviewed the volunteer members from the last meeting and Mark Cooper was designated as the Oronite member.
- 10.0 PC-10 Test Review
  - 10.1 Jim McGeehan reviewed the currently proposed tests for PC-10, see Attachment 7. Joe Franklin noted after the meeting that HTHS is method D4683, 90 cycle shear stability is method D7109 and volatility by GC is method D6417.
- 11.0 T-9 to T-10 Correlation

- 11.1 Greg Shank presented the T9 / T-10 data gathered to date, see Attachment 8. Greg moved and Lew Williams seconded that the proposed T-10 limits for qualifying an oil as passing the T-9 test be exit balloted. The motion passed with 18 for, 0 against, 0 abstain.
- 12.0 Dyed PC-9 Fuel
- 12.1 Jim Wells brought up the issue of using dyed PC-9 fuel and that nearly all of the surveillance panels had agreed to its use, with the switch to be a running change. The Cat Surveillance Panel agreed to the use of dyed fuel. However, Abdul Cassim presented a recently uncovered Cat position on the use of dyed fuel (see Attachment 9), but it contained no data with regard to effect on deposits. The RFWT had not yet met or addressed the issue. Tom Franklin moved to accept the use of dyed PC-9 fuel in older tests. Bill Runkle seconded the motion which passed with 16 for, 0 against, 2 abstain.
- 13.0 Next Meeting
- 13.1 The next meeting will be held on March 31, 2005 at the Embassy Suites in Rosemont, IL (Chicago) and will last into the afternoon.
- 13.2 Charlie Passut wants CF-4 to be on the agenda for the meeting.
- 14.0 Adjournment
- 14.1 This meeting was adjourned at 11:10 a.m. on February 23, 2005.

Submitted by:

Jim Wells  
Secretary to the HDEOCP