

**HEAVY-DUTY ENGINE OIL CLASSIFICATION PANEL  
OF  
ASTM D02.B0.02  
December 4, 2001  
Fontainebleau Hilton Hotel, Miami Beach, FL**

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**ACTION ITEMS**

**1. Report passing CI-4 ballot to sub-committee B.**

**Jim McGeehan**

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**MINUTES**

1.0 Call to Order

1.1 Chairman Jim McGeehan called the meeting to order at 9:15 a.m. on December 4, 2001, in the Fontainebleau Ballroom B of the Fontainebleau Hilton Hotel in Miami Beach, Florida. There were 12 members present or represented and approximately 60 guests present. The attendance list is shown as Attachment 2.

2.0 Agenda

2.1 The published agenda (Attachment 1) was reviewed, with no suggested changes.

3.0 Previous Meeting Minutes

3.1 The minutes of the October 16, 2001 meeting were approved, as posted on the ASTM Test Monitoring Center web site.

4.0 Membership

4.1 There were no changes in membership. Several guests registered changes in addresses and affiliations.

5.0 "B" Ballot on CI-4

- 5.1 Chairman McGeehan reported the results of the recent "B" ballot on CI-4 (Attachment 3). The ballot was successful, but there are two negatives and several comments to be addressed.
- 5.2 Lyle Bowman discussed the reasons for his negative ballot return (see Attachment 4). He took issue with use of the term "anchor" in relation to the Mack T-10 merit system. Lyle moved to replace the term "anchor" in all instances connected to the Mack T-10 merit system, with the term "target". Amy Huang seconded the motion, which passed via voice vote with none against and no abstentions.
- 5.3 Jim McGeehan reviewed the known needed editorial corrections, which were discovered and communicated to the D02.B0 membership prior to closure of the ballot (Attachment 5). Pat Fetterman moved that these corrections be adopted and Lew Williams seconded the motion, which passed via voice vote with none against and no abstentions.
- 5.4 Tom Cousineau reviewed the Ethyl negative ballot reasons and comments (Attachment 6). Tom moved and Dwayne Tharp seconded that the decimal points in the WDR and WDN limits be removed and the limits be set at the appropriately rounded whole number. The motion passed after some discussion, via voice vote, with none against and one abstention.
- 5.5 The panel agreed that the phrase "normalized to 1.75% soot" appended to "Average Liner Wear" in the T-10 table A10.2 was in error and should be removed.
- 5.6 Tom Cousineau moved that Oil Consumption should be removed as a Sequence III-F pass / fail limit for CI-4, because it is a validity requirement for the test now. Pat Fetterman seconded the motion, which passed via voice vote, with none against and no abstentions.
- 5.7 After some discussion, Ethyl and Infineum withdrew their requests to have the "minimums" also listed in the Mack T-10 merit table (A10.2) and John Zalar answered Ethyl's concern about the seemingly inconsistent use of decimal places in table A10.1. Several of Ethyl's editorial observations apply to previous, established categories and as such, were not dealt with at this time. The other editorial observations will be incorporated where possible and appropriate.
- 5.8 Rich Lee moved that for the 1R, the three test limit for TLC should be 36 and for the M-11 EGR, the two test and three test limits for OFDP should be 320 and 341. Steve Kennedy seconded the motion, which passed via voice vote with none against and no abstentions.

- 5.9 After some discussion, the panel agreed that the Mack T-10 merit table (A10.2) should stay in D-4485.
  - 5.10 Lew Williams had comments about pass / fail parameter terminology. For the M-11 EGR, "Top Ring Weight Loss" should be identified as "Average Top Ring Weight Loss" and for the 1R, "Scuffing, piston-ring-liner" should be changed to "Piston-Ring-Liner Distress", to more accurately reflect what is being evaluated. The panel agreed with these suggestions.
  - 5.11 Steve Kennedy moved to remove the 1N from the CI-4 table of pass / fail limits and keep it as a footnote alternative to the 1K. Bill Kleiser seconded this motion, which passed with 11 for, 0 against and 1 abstain.
- 6.0 Mack T-10
- 6.1 Wim VanDam reported for the T-10 Task Force (now part of the Mack Surveillance Panel). See Attachment 7. Wim moved and Dave Stehouwer seconded that all CI-4 MRV samples generated after 2001 be evaluated using agitation and the modified D-4684 MRV method (external pre-heat). After considerable discussion regarding the effect of this proposed change on the CI-4 ballot and an affirmation from Chris May that the two versions of D-4684 did not produce statistically different results on the wide range of oils they evaluated, this motion somehow disappeared. In its place, a motion by Lyle Bowman appeared, seconded by Pat Fetterman. Lyle moved that an information letter be issued by the TMC to indicate the desires of the T-10 Task Force to use only one method for evaluating CI-4 MRV results, namely, the modified D-4684 (external pre-heat) with agitation. This motion was voted on and passed via voice vote, with none against and no abstentions.
  - 6.2 The modified MRV method Research Report is in progress.
- 7.0 Break
- 7.1 At this point, a more or less 10 minute break occurred.
- 8.0 Cummins M-11 EGR
- 8.1 Dave Stehouwer reported that the M-11 EGR Research Report has been compiled and approved by the Task Force. It is posted on the TMC web site.
- 9.0 CAT 1R
- 9.1 The 1R Research Report is in progress.

## 10.0 "B" Report

10.1 Jim McGeehan announced that he will report to sub-committee B that all negatives have been resolved or withdrawn and all other changes to the CI-4 ballot are editorial. He thanked the panel and all the Task Forces for their hard work (Attachment 8).

## 11.0 "B" Ballot to use Seq. III-F for Seq. III-E

11.1 There was a negative from Infineum on a D-4485 revision ballot to permit use of the Seq. III-F test for the unavailable Seq. III-E in the CG-4 and CH-4 categories (Attachment 9). The negative objected to use of the phrase "and longer drain intervals" in the description of the Seq. III-F. Pat Fetterman moved and Tom Cousineau seconded that the phrase "and longer drain intervals" be removed from the Seq. III-F description in D-4485. The motion passed via voice vote, with none against and no abstentions.

11.2 Comments on the ballot by Paul Hobson, concerning pass / fail limit percentages, were incorrect and not acted upon.

11.3 Comments by Mike McMillan, regarding the phrase "under development" applied to the Seq. III-F, were not acted upon. According to Lyle Bowman, the test is still "under development" until it becomes a standard and a "D" number is assigned.

## 12.0 Next Meeting

12.1 Chairman McGeehan put up a slide (Attachment 10) showing the pending emissions regulations timetable and thus the need to start work on PC-10. At this time, the next meeting is planned for June, 2002, in Montreal.

## 13.0 Adjournment

13.1 The meeting was adjourned at 11:20 a.m.

Submitted by:

Jim Wells  
Secretary to the HDEOCP

# ASTM HDEOCP MEETING

## FONTAINEBLEAU HILTON RESORT & TOWER-MIAMI

**DECEMBER 4<sup>TH</sup> 2001**  
**BALLROOM B**  
**9:00 a.m. – 5:00 PM**

**Chairman/Secretary:**    **Jim Mc Geehan/Jim Wells**

**Purpose:**                    **Resolve all ballot issues on D-4485 for API CI-4**

**Desired Outcomes:**    **Successful B ballot on D-4485 for API CI-4**

TOPIC	PROCESS	WHO	TIME
Agenda Review	<ul style="list-style-type: none"> <li>• Desired Outcomes</li> <li>• Agenda</li> </ul>	Group	9:00 – 9:05
Approval of Minutes	<ul style="list-style-type: none"> <li>• October 16<sup>th</sup> minutes</li> </ul>	Group	9:05 – 9:15
Membership changes	<ul style="list-style-type: none"> <li>• Review members list</li> </ul>	Jim Mc Geehan	9:15 – 9:20
D4485 Ballot returns	<ul style="list-style-type: none"> <li>• Review returns</li> </ul>	Jim Mc Geehan	9:20-9:30
Resolve all negatives	<ul style="list-style-type: none"> <li>• Discussion</li> </ul>	Group	9:30 – 11:30
Lunch	<ul style="list-style-type: none"> <li>•</li> </ul>	Group	11:30-1:30
Low Temperature Pumpability	<ul style="list-style-type: none"> <li>• Mack T-10 task-force recommendations.</li> </ul>	Wim Van Dam	1:30-2:00
Resolve negatives	<ul style="list-style-type: none"> <li>• Finalize all issues for B meeting</li> </ul>	Group	2:00-3:00
Research Reports	<ul style="list-style-type: none"> <li>• Mack T-10</li> <li>• Cummins M11-EGR</li> <li>• Caterpillar IR</li> <li>• Low Temp. Pumpability</li> </ul>	Greg Shank Dave Stehouwer Dwayne Tharp Dave Stehouwer	
Old and New business	<ul style="list-style-type: none"> <li>•</li> </ul>	Group	4:30 – 5:00

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<b>Franklin, Thomas M.</b> FR&TS Inc. 25835 White Eagle Dr. San Antonio, TX 78258-64604	(210) 497-1310 (210) 497-1315 <a href="mailto:tfranklin@earthlink.net">tfranklin@earthlink.net</a>		
<b>Funk, Raymond</b> Citgo Petroleum Corp. P.O. Box 3758 Tulsa, OK 74102	(918) 495-5931 (918) 495-5022 <a href="mailto:rfunk@citgo.com">rfunk@citgo.com</a>		
<b>Garcia, Miguel A.</b> Repsol YPF 2609 Native Oak Dr. Flower Mound, TX 75022	(972) 691-8060 (972) 691-0477 <a href="mailto:mgarcia@repsol-ypf.com">mgarcia@repsol-ypf.com</a>	MG	

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	<b>Phone No. Fax No. e-mail add.</b>	<b>INITIAL WHEN PRESENT</b>	<b>ROOM FEE</b>
<b>Gauthier, Alain</b> TotalFinaElf, CRES b.p. 22 69360 Solaize, France	(33) 4 78 02 60 38 (33) 4 78 02 60 92 <a href="mailto:alain-paul.gauthier@totalfinaelf.com">alain-paul.gauthier@totalfinaelf.com</a>		
<b>Girshick, Fred W.</b> INFINEUM 1600 E. Linden Ave. Linden, NJ 07036	(908) 474-3247 (908) 474-2085		
<b>Glaser, John</b> Perkin Elmer Automotive Research 5404 Bandera Rd. San Antonio, TX 78238	(210) 647-9459 (210) 523-4607 <a href="mailto:john.glaser@perkinelmer.com">john.glaser@perkinelmer.com</a>		
<b>Goldblatt, Irwin</b> Castrol NA 240 Centennial Ave. Piscataway, NJ 08854	(732) 980-3606 (973) 686-4224 <a href="mailto:irwin.goldblatt@castrolna.com">irwin.goldblatt@castrolna.com</a>	ILG	
<b>Gomez, Redescal</b> PDVSA Intevep APDO 76345 Caracas, 1070A Venezuela	(58212) 908-6754 (58212) 908-7723 <a href="mailto:gomezriv@pdvsa.com">gomezriv@pdvsa.com</a>	RG	
<b>Goodrich, Barb</b> 305 Radcliffe Dr. Newark, DE 19711	(302) 731-9438 <a href="mailto:begoodrich@aol.com">begoodrich@aol.com</a>		
<b>Graham, Mary</b> Conoco P.O. Box 1267 Ponca City, OK 74602-1267	(580) 767-4013 (580) 767-4534 <a href="mailto:mary.e.graham@usa.conoco.com">mary.e.graham@usa.conoco.com</a>	MG	
<b>Grant, Lee</b> Southwest Research Inst. P.O. Box 28510 San Antonio, TX 78228	(210) 522-5004 (210) 684-7523 <a href="mailto:lgrant@swri.org">lgrant@swri.org</a>	LG	

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	<b>Phone No. Fax No. e-mail add.</b>	<b>INITIAL WHEN PRESENT</b>	<b>ROOM FEE</b>
<b>Graves Jr., L. Martin</b> BP Amoco Chemicals P.O. Box 3011 M.S. C-2 Naperville, IL 60566-7011	(630) 420-4925 (630) 961-7979 <a href="mailto:graveslm@bp.com">graveslm@bp.com</a>		
<b>Grinfield, Rebecca</b> Southwest Research Institute 6220 Culebra Rd. San Antonio, TX 78238	(210) 522-3652 (210) 522-5097 <a href="mailto:bgrinfield@swri.org">bgrinfield@swri.org</a>		
<b>Groff, Walter</b> Southwest Research Institute 6220 Culebra Rd. San Antonio, TX 78238	(210) 522-2823 (210) 684-7523 <a href="mailto:wgroff@swri.org">wgroff@swri.org</a>		
<b>Grona, Larry</b> Analytical Petroleum Consultants 3410 Clearfield San Antonio, TX 78230-3314	(210) 696-2889 (210) 696-2889 <a href="mailto:lcgrona@aol.com">lcgrona@aol.com</a>		
<b>Gutzwiller, Jim</b> Infineum USA, L.P. 4335 Piedras West, Suite 101 San Antonio, TX 78228	(210) 732-8123 (210) 732-8480 <a href="mailto:James.Gutzwiller@infineum.com">James.Gutzwiller@infineum.com</a>		
<b>Hardy, Bryant</b> Conoco P.O. Box 1267 Ponca City, OK	(580) 767-5601 <a href="mailto:bryant.j.hardy@usa.conoco.com">bryant.j.hardy@usa.conoco.com</a>		
<b>Harris, Raymond B.</b> PPC Lubricants 245 Green Lane Dr. Camp Hill, PA 17011	(717) 761-2426 (717) 939-3156 <a href="mailto:hcmgt@aol.com">hcmgt@aol.com</a>		RBH
<b>Hart, Marv</b> Century Lubricants Co. 2140 S. 88 <sup>th</sup> St. Kansas City, KS 66111	(913) 441-7160 (913) 441-2333 <a href="mailto:mhart@centurylub.com">mhart@centurylub.com</a>		

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	<b>Phone No. Fax No. e-mail add.</b>	<b>INITIAL WHEN PRESENT</b>	<b>ROOM FEE</b>
<b>Herzog, Steven</b> RohMax USA, Inc. 723 Electronic Drive Horsham, PA 19044-2228	(215) 706-5817 (215) 706-5801 <a href="mailto:s_herzog@rohmax.com">s_herzog@rohmax.com</a>	SH	
<b>Hope, Ken</b> Chevron Phillips Chemical Co. LP 1862 Kingwood Dr. Kingwood, TX 77339	(281) 359-6519 <a href="mailto:hopekd@cpchem.com">hopekd@cpchem.com</a>		
<b>Iwamoto, Ross</b> 76 Lubricants Co. 1920 East Deere Ave. Santa Ana, CA 92705	(714) 428-7409 (714) 428-7498 <a href="mailto:riwamoto@tosco.com">riwamoto@tosco.com</a>		
<b>Jacobson, Mark</b> Dupont 36263 Derby Downs Solon, OH 44139	(440) 248-9151 (440) 248-9161 <a href="mailto:mark.s.jacobson@usa.dupont.com">mark.s.jacobson@usa.dupont.com</a>		
<b>Jetter, Steven M.</b> ExxonMobil R&E 600 Billingsport Rd. Paulsboro, NJ 08066	(856) 224-2867 (856) 224-2102 <a href="mailto:steven_m_jetter@email.mobil.com">steven_m_jetter@email.mobil.com</a>		
<b>Karol, Tim</b> R.T. Vanderbilt Co. 33 Winfield St. Norwalk, CT 06855	(203) 853-1400 (203) 831-0648 <a href="mailto:tkarol@rtvanderbilt.com">tkarol@rtvanderbilt.com</a>		
<b>Kiovsky, Tom</b> Fuels & Lubes Asia 33078 Allenbury Dr. Solon, OH 44139	(440) 248-3198 <a href="mailto:t.kiovsky@att.net">t.kiovsky@att.net</a>		



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	<b>Phone No. Fax No. e-mail add.</b>	<b>INITIAL WHEN PRESENT</b>	<b>ROOM FEE</b>
<b>Klein, Rick</b> Oronite 30150 Telegraph Rd., Suite 355 Bingham Farms, MI 48025	(248) 540-3277 (248) 540-3279 <a href="mailto:rmkl@chevrontexaco.com">rmkl@chevrontexaco.com</a>	RMK	
<b>Knight, John W.</b> Test Engineering, Inc. 12718 Cimarron Path San Antonio, TX 78249	(210) 690-1958 (210) 690-1959 <a href="mailto:jknight@testeng.com">jknight@testeng.com</a>		
<b>Kuhlman, Dick</b> Ethyl Corporation 2000 Town Center, Suite 1750 Southfield, MI 48075	(248) 350-0647 (248) 350-0025 <a href="mailto:dick_kuhlman@ethyl.com">dick_kuhlman@ethyl.com</a>	REK	
<b>Lee, Rich</b> Chevron Oronite 100 Chevron Way Richmond, CA 94802	(510) 242-2988 (510) 242-3173 <a href="mailto:rhle@chevrontexaco.com">rhle@chevrontexaco.com</a>	RHL	
<b>Malandro, Dennis</b> Infineum USA, LP 1900 E. Linden Ave. Linden, NJ 07036	(908) 474-3895 (908) 474-2298 <a href="mailto:dennis.malandro@infineum.com">dennis.malandro@infineum.com</a>		
<b>Marn, Don</b> Lubrizol 29400 Lakeland Blvd. Wickliffe, OH 44092	(440) 347-1481 (440) 347-1286 <a href="mailto:djm@lubrizol.com">djm@lubrizol.com</a>		
<b>Matson, Mark L.</b> Marathon Ashland Petroleum LLC 539 S. Main Findlay, OH 45840	(419) 421-4239 (419) 421-2264 <a href="mailto:mlmatson@mapllc.com">mlmatson@mapllc.com</a>		
<b>May, Chris</b> Imperial Oil 453 Christina St., S. Sarnia, Ontario N7T 8C8 Canada	(519) 339-2827 (519) 339-2317 <a href="mailto:chris.j.may@esso.com">chris.j.may@esso.com</a>	CJM	

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	<b>Phone No. Fax No. e-mail add.</b>	<b>INITIAL WHEN PRESENT</b>	<b>ROOM FEE</b>
<b>Mazzamaro, Glenn</b> CIBA Specialty Chemicals 540 White Plains Rd. Tarrytown, NY 10591	(914) 785-4221 (914) 785-4249 <a href="mailto:glenn.mazzamaro@cibasc.com">glenn.mazzamaro@cibasc.com</a>	GAM	
<b>McCarthy, Stacey</b> Detroit Diesel 13400 Outer Drive, W. Detroit, MI 48239	(313) 592-5176 (313) 592-3892 <a href="mailto:stacey.mccarthy@detroitdiesel.com">stacey.mccarthy@detroitdiesel.com</a>		
<b>McCord, James</b> Southwest Research Institute 6220 Culebra Rd. T-33 San Antonio, TX 78238	(210) 522-3439 (210) 523-6919 <a href="mailto:jmccord@swri.org">jmccord@swri.org</a>		
<b>McFall, David</b> Lubes'N'Greases Magazine 1300 Crystal Dr., Suite 1203 Arlington, VA 22202	(703) 416-7284 (703) 416 0015 <a href="mailto:david.vmc@verizon.net">david.vmc@verizon.net</a>	DM	
<b>Migdal, Cyril</b> Crompton Corp. 199 Benson Rd. Middlebury, CT 06749	(203) 573-2532 (203) 573-2165 <a href="mailto:cyril_migdal@cromptoncorp.com">cyril_migdal@cromptoncorp.com</a>		
<b>Miller, Ed</b> Consultant 42 Edgehill Dr. Wappingers Falls, NY 12590	(845) 297-8276 <a href="mailto:milleredf@aol.com">milleredf@aol.com</a>		
<b>Mitchell, Bill</b> John Deere & Co. P.O. Box 8000 Waterloo, IA 50704-8000	(319) 292-8241 (319) 292-8441 <a href="mailto:MitchellWilliamE@jdcorp.deere.com">MitchellWilliamE@jdcorp.deere.com</a>		
<b>Moritz, Jim</b> PerkinElmer AR 5404 Bandera Rd. San Antonio, TX 78238	(210) 523-4601 (210) 523-4607 <a href="mailto:jim.moritz@perkinelmer.com">jim.moritz@perkinelmer.com</a>	JM	

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	<b>Phone No. Fax No. e-mail add.</b>	<b>INITIAL WHEN PRESENT</b>	<b>ROOM FEE</b>
<b>Mulford, Luis</b> Savant 4800 James Savage Rd. Midland, MI 48642	(517) 496-2301  <a href="mailto:savant@savantgroup.com">savant@savantgroup.com</a>		
<b>Nahumck, William M.</b> The Lubrizol Corp. 29400 Lakeland Blvd. Wickliffe, OH 44092	(440) 347-2596 (440) 347-4096 <a href="mailto:wmn@lubrizol.com">wmn@lubrizol.com</a>		
<b>Nann, Norbert</b> Nann Consultants Inc. 59 Edgehill Drive Wappinger Falls, NY 12590	(845) 297-4333 (845) 297 4334 <a href="mailto:norbnann1@aol.com">norbnann1@aol.com</a>	NAN	
<b>Newcombe, Jim</b> Infineum USA, LP 34388 Quaker Valley Rd. Farmington Hills, MI 48331	(248) 476-8171 (248) 474-0739 <a href="mailto:james.newcombe@infineum.com">james.newcombe@infineum.com</a>		
<b>Oliphant, Tom</b> American Refining Group 77 N. Kendall Ave. Bradford, PA 16701	(814) 368-1353 (814) 368-1328 <a href="mailto:toliphant@amref.com">toliphant@amref.com</a>		
<b>Oliver, Rick</b> RSI 2805 Beverly Dr. Flower Mound, TX 75022	(972) 726-2136  <a href="mailto:crickoliver@home.com">crickoliver@home.com</a>	CRO	
<b>Olszewski, T. A.</b> Exxon Company USA 800 Bell Street Houston, TX 77252	(713) 656-4398 (713) 656-5301 <a href="mailto:tom.a.olszewski@exxon.com">tom.a.olszewski@exxon.com</a>		
<b>Orrin, Douglas</b> MathSoft 1573 Martinique Drive Troy, MI 48084	(248) 816-3332 (248) 816-5858 <a href="mailto:dorrin@splus.mathsoft.com">dorrin@splus.mathsoft.com</a>		

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	<b>Phone No. Fax No. e-mail add.</b>	<b>INITIAL WHEN PRESENT</b>	<b>ROOM FEE</b>
<b>Paboucek, Jim</b> Castrol HD Lubricants 9300 Pulaski Highway Baltimore, MD 26220	(410) 682-9409 (410) 780-8632 <a href="mailto:jim_paboucek@burmahcastrol.com">jim_paboucek@burmahcastrol.com</a>		
<b>Parry, Barb</b> Mohawk Lubricants Ltd. 130 Forester St. North Vancouver, BC VTH2M9	(604) 924-2703 (604) 929-8371 <a href="mailto:bparry@mohawklubes.com">bparry@mohawklubes.com</a>		
<b>Patrick, Dick</b> Citgo Petroleum Corporation P.O. Box 3758 Tulsa, OK 74102	(918) 495-5937 (918) 495-5935 <a href="mailto:rpatri1@citgo.com">rpatri1@citgo.com</a>	DP	
<b>Pearse, Steven</b> Castrol Technology Centre Whitchurch Hill Pangbourne Reading Berkshire, England RG8 7QR	44 (0) 118 976 5459 <a href="mailto:pearses@castrol.com">pearses@castrol.com</a>		
<b>Peckham, Jack</b> Lubricants World 4545 Post Oak Place, #210 Houston, TX 77027	(713) 993-9320 <a href="mailto:jpeckham@phillips.com">jpeckham@phillips.com</a>		
<b>Place, William E.</b> Oronite 30150 Telegraph Rd., Suite 355 Bingham Farms, MI 48025	(248) 540-3277 (248) 540-3279 <a href="mailto:wepl@chevrontexaco.com">wepl@chevrontexaco.com</a>	BP	
<b>Ratliff, Kevin</b> BP 150 W. Warrenville Rd. Naperville, IL 60563	(630) 420-5073 (630) 961-7979 <a href="mailto:ratlifks@bp.com">ratlifks@bp.com</a>		
<b>Reddy, Vijay N.</b> Thermo Haake 149 Commonwealth Dr. (Thermal Lab) Menlo Park, CA 94025	(650) 688-7075 (650) 688-7202 <a href="mailto:vijay.reddy@thermohaake.com">vijay.reddy@thermohaake.com</a>		

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	<b>Phone No. Fax No. e-mail add.</b>	<b>INITIAL WHEN PRESENT</b>	<b>ROOM FEE</b>
<b>Rees, Mark</b> The Lubrizol Corp. 29400 Lakeland Blvd. Wickliffe, OH 44092	(440) 347-5385  <a href="mailto:mree@lubrizol.com">mree@lubrizol.com</a>	MR	
<b>Righi, Dino</b> Lubrizol Corp. 29400 Lakeland Blvd. Wickliffe, OH 44092	(440) 347-4436 (440) 943-9013 <a href="mailto:dwri@lubrizol.com">dwri@lubrizol.com</a>		
<b>Rosenbaum, John</b> Chevron Products Co. 100 Chevron Way Richmond, CA 94802-0627	(510) 242-5673 (510) 242-3758 <a href="mailto:rosj@chevronTEXACO.com">rosj@chevronTEXACO.com</a>	JR	
<b>Rumford, Robert H.</b> Haltermann Products 1201 South Sheldon Rd., P.O. Box 429 Channelview, TX 77530-0429	(281) 457-2768 (281) 457-1469 <a href="mailto:rhrumford@dow.com">rhrumford@dow.com</a>	RHR	
<b>Runkle Jr., William A.</b> Valvoline Company LA 3 South P.O. Box 14000 Lexington, KY 40512-4000	(859) 357-7686 (859) 357-3343 <a href="mailto:wrunkle@ashland.com">wrunkle@ashland.com</a>	WAR	
<b>Rutherford, Jim</b> Chevron Oronite 100 Chevron Way Richmond, CA 94802-0627	(510) 242-3410 (510) 242-1930 <a href="mailto:jaru@chevron.com">jaru@chevron.com</a>	JR	
<b>St. Germain, Bob</b> Crompton Corp. 6847 Napier Lane Houston, TX 77069	(281) 587-2393 (281) 587-0338 <a href="mailto:robert_stgermain@cromptoncorp.com">robert_stgermain@cromptoncorp.com</a>		

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	<b>Phone No. Fax No. e-mail add.</b>	<b>INITIAL WHEN PRESENT</b>	<b>ROOM FEE</b>
<b>Sander, John</b> Lubrication Engineers, Inc. 1919 E. Tulsa Wichita, KS 67216	(316) 529-2112 (316) 529-4654 <a href="mailto:sanderj@lubricationengineers.com">sanderj@lubricationengineers.com</a>		
<b>Sarlo, Mark</b> Southwest Research Institute 6220 Culebra Rd. San Antonio, TX 78238	(210) 522-3754 (210) 523-6919 <a href="mailto:msarlo@swri.org">msarlo@swri.org</a>	MS	
<b>Schoppe, Dean</b> PerkinElmer AR 5404 Bandera Rd. San Antonio, TX 78238	(210) 523-4605 (210) 523-4607 <a href="mailto:dean.schoppe@perkinelmer.com">dean.schoppe@perkinelmer.com</a>	DRS	
<b>Schuettenburg, Alex</b> Phillips Petroleum 148 AL, PRC Bartlesville, OK 74004	(918) 661-3863 (918) 661-8060 <a href="mailto:adschue@ppco.com">adschue@ppco.com</a>		
<b>Scinto, Phil</b> Lubrizol 29400 Lakeland Blvd. Wickliffe, OH 44092	(440) 347-2161 (440) 347-9031 <a href="mailto:prs@lubrizol.com">prs@lubrizol.com</a>		
<b>Selby, Ted</b> Savant, Inc. 4800 James Savage Rd. Midland, MI 48642	(517) 496-2301 (517) 496-3438 <a href="mailto:tselby@savantgroup.com">tselby@savantgroup.com</a>		
<b>Shah, Mayur</b> Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092	(440) 347-1697 <a href="mailto:mpsa@lubrizol.com">mpsa@lubrizol.com</a>		
<b>Shaub, Hal</b> Center For Innovation 1112 Hidden Ridge Dr. #1071 Irving, TX 75038	(972) 518-1223 (972) 756-1063 <a href="mailto:hshaub@webtv.net">hshaub@webtv.net</a>		

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	<b>Phone No. Fax No. e-mail add.</b>	<b>INITIAL WHEN PRESENT</b>	<b>ROOM FEE</b>
<b>Shipinski, John</b> Toyota 1588 Woodridge Ann Arbor, MI 48105	(734) 995-3754 (734) 995-5971 <a href="mailto:shipinski@ttc-usa.com">shipinski@ttc-usa.com</a>	JS	
<b>Shugarman, Arnold</b> Consultant 1906 E. Catalina Ave. Santa Ana, CA 92705	(714) 206-6136 <a href="mailto:shugarman@earthlink.net">shugarman@earthlink.net</a>		
<b>Siemelink, Hans</b> Shell Oil One Shell Plaza, 910 Louisiana Rd. Houston, TX 77002	<a href="mailto:hsiemelink@shell.com">hsiemelink@shell.com</a>	HS	
<b>Spence, Steve</b> Mohawk Lubricants Ltd 130 Forester St. N. Vancouver, Canada V7H 2M9	(604) 924-2701 <a href="mailto:sspence@mohawklubes.com">sspence@mohawklubes.com</a>		
<b>Smith, Clinton</b> Imperial Oil 111 St. Clair Ave. Toronto, Ontario M5W1K3	(416) 968-8308 (416) 968-5680 <a href="mailto:clint-smith@esso.com">clint-smith@esso.com</a>	CRS	
<b>Smith, Leigh L.</b> CITGO Petroleum Corp. 28 Cedar Hill Rd. Newtown, CT 06470	(203) 270-8156 (203) 270-8452 <a href="mailto:lsmith2@citgo.com">lsmith2@citgo.com</a>	LLS	
<b>Smith, Roy (A09)</b> Detroit Diesel Corp. 13400 W. Outer Loop Dr. Detroit, MI 48239-4001	(313) 592-5758 (313) 592-7888 <a href="mailto:roy.smith@detroitdiesel.com">roy.smith@detroitdiesel.com</a>		
<b>Stephens, Carl</b> Ashland Inc. 22 <sup>nd</sup> and Front Sts. Ashland, KY 41101	(606) 329-5198 (606) 329-3009 <a href="mailto:cstephens@ashland.com">cstephens@ashland.com</a>		

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	<b>Phone No. Fax No. e-mail add.</b>	<b>INITIAL WHEN PRESENT</b>	<b>ROOM FEE</b>
<b>Strigner, Paul</b> 31 Seguin St. Ottawa, Ontario Canada K1J 6P2	(613) 746-0647 (613) 746-9292 <a href="mailto:kaltech@magi.com">kaltech@magi.com</a>	PSS	
<b>Sutherland, Mark</b> Chevron / Oronite 4502 Centerview, Suite 210 San Antonio, TX 78228	(210) 731-5600 (210) 731-5699 <a href="mailto:msut@chevrontexaco.com">msut@chevrontexaco.com</a>	MS	
<b>Sutherland, Robert</b> Pennzoil-Quaker State 1520 Lake Front Circle The Woodlands, TX 77380	(281) 363-8029 (281) 363-8002 <a href="mailto:RobertSutherland@pzlqs.com">RobertSutherland@pzlqs.com</a>	RS	
<b>Sztenderowicz, Mark</b> Chevron Products Co. 100 Chevron Way Richmond, CA 94802-0627	(510) 242-1022 (510) 242-3758 <a href="mailto:mlsz@chevrontexaco.com">mlsz@chevrontexaco.com</a>		
<b>Tarbox, Steven R.</b> 76 Lubricants Company 1920 E. Deere Avenue Santa Ana, CA 92705	(714) 428-7400 (714) 428-7498 <a href="mailto:starbox@tosco.com">starbox@tosco.com</a>		
<b>Tharby, Ron</b> Tharby & Associates 273 Juniper Ave. Burlington, Ontario L7L2TS	(905) 632-1568 (905) 333-8194		
<b>Tucker, Richard</b> Shell International Petroleum Co. P.O. Box 1380 Houston, TX 77251-1380	(281) 544-8354 (281) 544-6196 <a href="mailto:rftucker@shellus.com">rftucker@shellus.com</a>		
<b>Van Dam, Wim</b> Oronite P.O. Box 1627 Richmond, CA 94802	(510) 242-1404 (510) 242-3173 <a href="mailto:wvda@chevrontexaco.com">wvda@chevrontexaco.com</a>		



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HEAVY DUTY ENGINE OIL CLASSIFICATION PANEL****ATTENDANCE LIST****DECEMBER 2001****PREVIOUS GUESTS**

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HEAVY DUTY ENGINE OIL CLASSIFICATION PANEL****ATTENDANCE LIST****DECEMBER 2001****GUESTS**

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# ASTM

## SECTION D.02.B0.02 HEAVY DUTY ENGINE OIL CLASSIFICATION PANEL

### ATTENDANCE LIST

DECEMBER 2001

### GUESTS

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Name: _____		
Company: _____		
Address: _____		
_____		

# ASTM D02.B0 Ballot Item API CI Performance Category

Affirmative	Negative	Abstain	Percent Return
29	2	11	72

## Negatives

- ✓ Lyle Bowman
- ✓ Thomas Boschert

## Comments

- ✓ Rich Lee
- ✓ Jim Newcombe
- ✓ Lew Williams
- ✓ Tom Rogers



Jim Wells:

Re your request for copies of the slides that I used at Miami, they have already been discarded. However, most of what was on them was contained in my written comments in response to the CI-4 ballot. Nevertheless, I think I can reconstruct the slides and these follow:

Slide 1

The Form and Style for ASTM Standards says in A7.1.1 that “All significant terms that may have a meaning more specialized or more restricted than the common dictionary meaning should be defined within the standard, ....”

The common dictionary definitions for “anchor” do not remotely relate to the purpose of the maximum numerical values in the Mack T-10 Merit Rating System.

Also, there is no definition for “anchor” provided in the proposed revision to the standard.

Slide 2

My dictionary gives six definitions for “anchor”: 1. A device, usually of metal, attached to a ship or boat by a cable and cast overboard to hold it in a particular place by means of a fluke that digs into the bottom. 2. A reliable support – MAINSTAY. 3. Something that serves to hold an object firmly. 4. An object shaped like a ship’s anchor. 5. ANCHORMAN. 6. *pl. slang* the brakes of a motor vehicle.

Slide 3

Proposed definition for “anchor”

anchor, n – an arbitrary term describing a flexible maximum numerical performance value.

A preferable and more suitable alternative term is “target”.

My dictionary has four definitions for “target” as a noun and one definition as a verb. The most applicable noun definitions are “a mark to shoot at” and “a goal to be achieved”. The verb definition is “to set as a goal”.

Lyle Bowman

# Editorial Corrections to D 4485 Ballot for API CI-4

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## 1. Caterpillar 1R

The TGF and TLC should be listed as “**Demerits**”, not %.

Oil Consumption: 0-252 hours (**average**) and 432-504 hours (**average**).

## 2. Cummins M11-EGR

Crosshead wear should be listed as “**Crosshead Average Wt Loss**”.

## 3. Sequence IIIF

The oil consumption limit for the two and three test should be listed as “**5.2 Liter, Max**”.

And, viscosity limit for the two and three test should be listed as “**275 (MTAC)**”.



# Editorial Corrections to D 4485 Ballot for API CI-4 (*Cont'd*)

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## 4. Mack T-10

In Table A 10.2 the maximum result for the 250-300 hour lead increase should be “**14 ppm**” not 12 ppm. (HDEOCP voted unanimously on 14 ppm).

## 5. Elastomer Compatibility

**Add Footnote.** The Elastomer Compatibility Surveillance Panel has developed a sophisticated statistical method to determine the results of candidate oil are not worse than the limits shown. (HDEOCP voted unanimously on this method.)





**Ethyl Comments on the API CI-4 Ballot**  
**November 27, 2001**

**Issues for which Ethyl vote NEGATIVE**

1. Insert A A footnote such as “T” is required on scuffing in the Cat 1R, Cat 1K and Cat 1N three-test limits, to define how multiple tests with scuffing are averaged. Compare to the Cat 1P and Cat 1K tests in Table 3. Tests with scuffing should be non-interpretable.
2. Insert D Table A10.1, we question some of the decimal places. Specifically, Cat 1R WDR has no decimal place. Should it have one decimal place? 1K WDK and 1N WDN do. Cat 1R TLC has two decimal places. Should it have one? 1K TLHC and 1N TLHC do. Cummins M11 EGR TRWL has one decimal place. Should it have none? Mack T-10 TRWL has none. Cummins M11 EGR OFDP has four decimal places (2.7000). Are they all justified?
3. Insert D, Table A10.2, Average Liner Wear is incorrect. It is not normalized to 1.75% soot.
4. Insert D, Table A10.2, minimums should be listed for each parameter. Definitions for anchor, maximum and minimum also need to be included.

If these issues are resolved, Ethyl will vote Affirmative on this ballot.

**Table 3 Editorial Comments**

5. Column heading should be “One-test”, to be consistent with “Two-test” and “Three-test”. Same comment for Insert A.
6. Cat 1P, is it “scuffing, piston-ring-liner” or “scuffing, piston-rings-liner”? Note that for the 1K, 1N and 1R, “ring” is used, not “rings”.
7. Cat 1K, for TGF and TLHC, it should be “% max”.
8. Cummins M-11, should be Average Engine Sludge
9. Cummins M11, is it Rocker Pad Average Weight Loss or Crosshead Average Weight Loss? Should be consistent with Cummins M1 EGR.
10. Sequence IIIIE (D 5533) and EOAT, for two-test and three-test limits, is it “MTAC” or “MTEP”?

11. D-892 Foam Sequence III is spelled incorrectly.

12. Footnote I, is it uninterpretable or non-interpretable?

**Insert A Editorial Comments**

13. Column heading should be “One-test”, to be consistent with “Two-test” and “Three-test”. Same comment for Table 3.

14. Suggest dropping the decimal place for Cat 1R WDR and Cat 1N WDN. This would be consistent with the Cat 1P and Cat 1K (see Table 3).

15. Cummins M11 EGR, is it Crosshead Average Weight Loss or Rocker Pad Average Weight Loss? Should be consistent with Cummins M11.

16. Cummins M11 EGR, suggest “normalized to 4.6% average soot, mg max”.

17. Sequence IIIF and EOAT, for two-test and three-test limits, is it “MTAC” or “MTEP”?

18. Footnote AL, suggest “The T-10A, currently under development...”

**Section 4 Editorial Comments**

19. Section 4.1.8.1, should have a footnote referencing RR:D02-1273 (Cat 1K).

20. Section 4.1.8.1, the Cat 1K does not measure ring wear.

21. Section 4.1.8.3, linear should be liner.

22. Section 4.1.8.3, should not have a footnote, since the T-9 now has a D-number.

23. Section 4.1.8.5, particularly is misspelled.

**Insert B Editorial Comments**

24. Insert B (Paragraph 4.1.9, CI-4), should have several footnotes identifying research reports or mentioning that test methods are under development: section 4.1.9.1, 1R; section 4.1.9.2, T-10; 4.1.9.3, M11 EGR; 4.1.9.5, Sequence IIIF; 4.1.9.6, 1K and 1N; 4.1.9.8, EOAT; 4.1.9.15, Elastomer Compatibility Test.

25. Section 4.1.9.6, the Cat 1K does not measure ring wear.

26. Section 4.1.9.10 should read “Test Method D 4684...”

**Section 6 Editorial Comments**

27. Section 6.7, does TMC monitor D 892?

28. Section 6.8, should T-10A be included? This test will be monitored by TMC.

**Insert C Editorial Comments**

29. Table 1 should include the T-10A test, with footnote Q. Also, are the T-8E and T-9 tests missing from this table?

**Insert D Editorial Comments**

30. Section A10.3.2, should read: “ ...this is a failing...”.

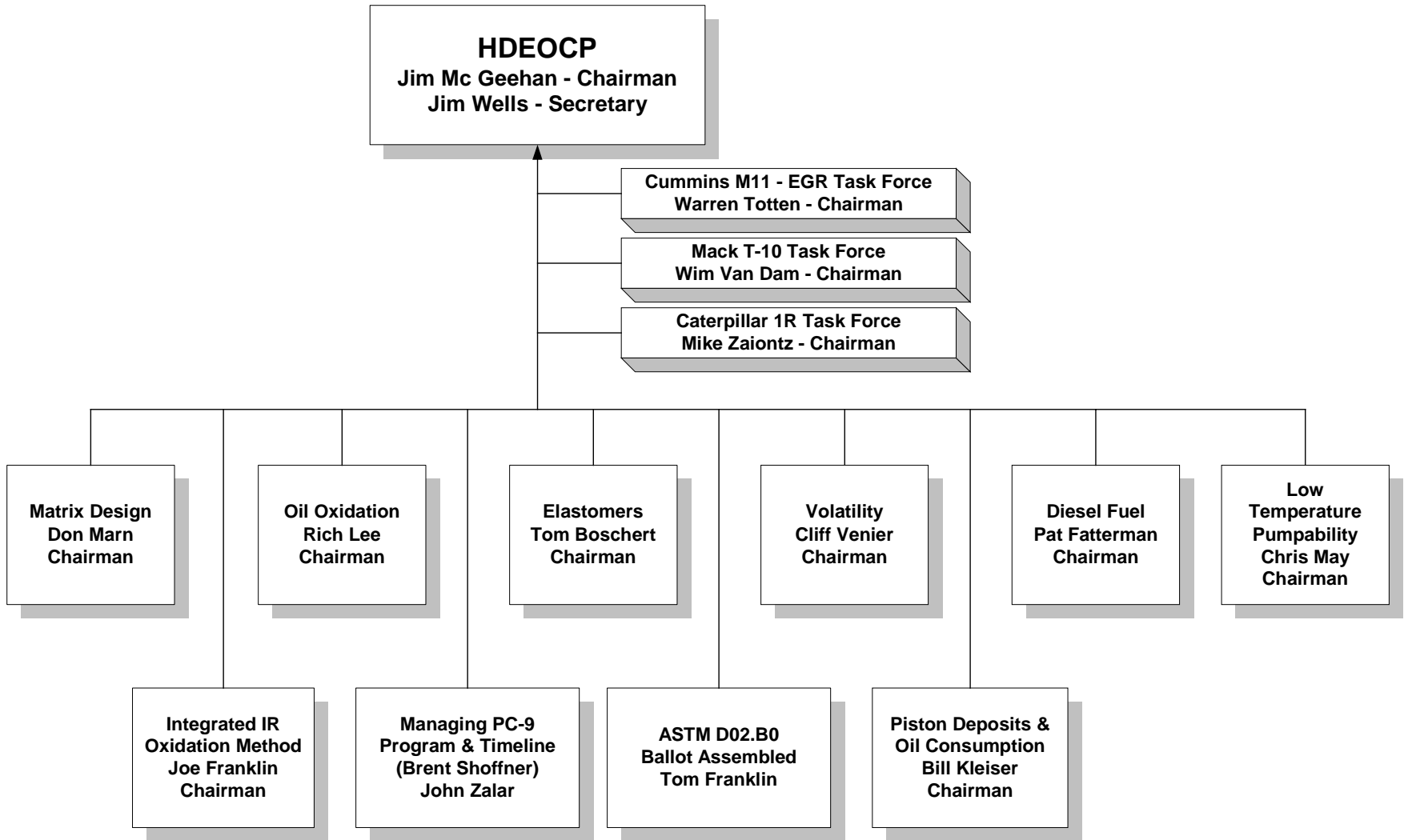
31. Table 10.2 T-10, Average Oil Consumption should be for Phase Two.

32. Section A10.2, capitalize the second “Table A10.2”.

33. Even though the Mack T-10 merit calculation is included in Draft 5 of the Mack T-10 Test method (the latest draft), we suggest the calculation also be included in the A10 appendix (Insert D).

## **Mack T-10A Used Oil MRV**

- Current procedure prescribes the use of D4684. If Yield Stress is observed, use Modified D-4684
- This procedure could delay obtaining a valid MRV result by several days
- Not all T-10A results have been obtained using the same procedure
- Task Force Recommendation:
  - Standardize on using the Modified D-4684 method in all cases
  - This method is being standardized : RR D02 1517



## Task Force Reporting to HDEOCP

# ASTM D02.B0 Ballot Item

## Rev. D 4485 for Sequence IIF to Replace Sequence IIE

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Affirmative	Negative	Abstain	Percent Return
32	2	4	64

### Negatives

- ✓ Jim Newcombe

### Comments

- ✓ Paul Hobson
- ✓ Mike McMillian



# Infineum's Comments

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**Following is Infineum's comments in support of our disapproval vote on the ballot to incorporate the Sequence IIF into Categories CG-4 and CH04 with ASTM D 4485.**

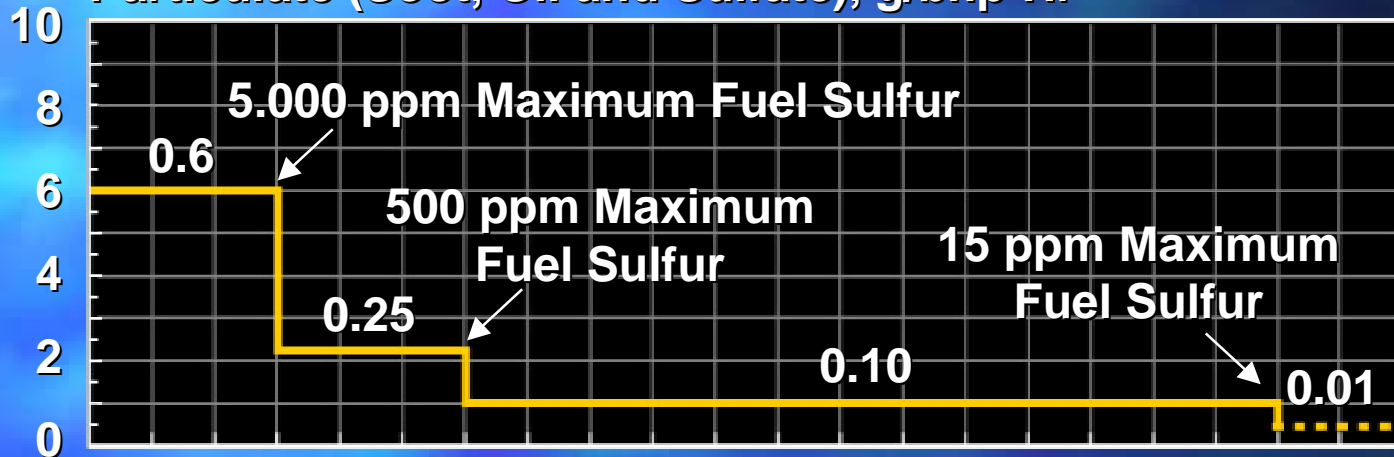
**“Infineum votes ‘Disapprove’ based only on the verbiage included in paragraph 4.1.6.3, which describes the Sequence IIF. We do not believe that it is appropriate for an ASTM document to refer to oil drain intervals, as is mentioned in this paragraph. Upon the removal of the phrase ‘...and longer drain intervals ...’ we will change our vote to ‘Approve’.”**

**James L. Newcombe  
Infineum USA**

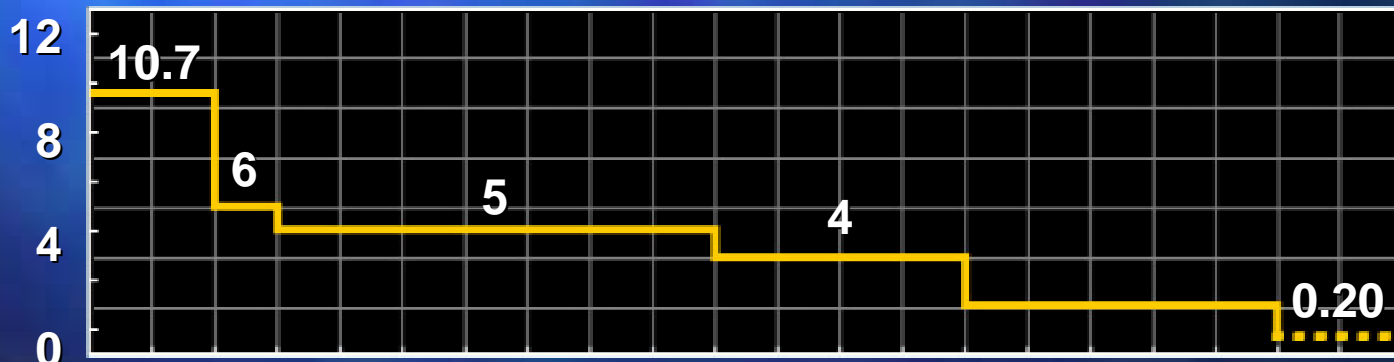


# Timely Delivery of High Quality Engine Oils

Particulate (Soot, Oil and Sulfate), g/bhp-Hr



No<sub>x</sub> (g/hp-Hr)



Year: '88 '90 '92 '94 '96 '98 '00 '02 '04 '06 '08

API: CE CF-4 CG-4 CH-4 PC-9 PC-10