ASTM Section D02.B0.10

Minutes of Meeting on December 8, 2008

Call to Order

ASTM Section D02.B0.10 on Standards Acceleration met on Monday, December 8, 2008 at 8:00 am in the Grand Ballroom J at the Tampa Marriott Waterside in Tampa, Florida. There were three members and two guests in attendance. A list of attendees is shown in Attachment 1.

Minutes for June16, 2008

The June 16, 2008 meeting minutes were approved.

Membership

Membership in Section 10 was reviewed. Bob Olree has retired and will be removed as a member. Jerry Gropp will be added as a member representing Section D02.B0.03. The updated membership list is shown in Attachment 2.

Facilitator Reports

Reports from facilitators were received. Written reports submitted are shown in Attachment 3.

The ISB test method was balloted at the D02 level and passed with no negatives and one comment. The ISB has been assigned number D 7484.

The ISM test method was concurrently balloted at the Subcommittee B and D02 levels. The ballots passed with no negatives and no comments. The ISM has been assigned number D 7468.

The ROBO test method was balloted at the Subcommittee B level and passed with no negatives and no comments.

A revision to D 4485, incorporating two HTHS test methods was balloted at the Subcommittee B level and passed with no negatives and no comments. This ballot item also included revisions associated with the SI units project.

A revision to D 5760 was balloted at the Subcommittee B level (08-04) and received one negative vote. Revisions were made, the item was re-balloted (08-07), and the item passed with no negatives and no comments.

Fourteen revisions to test methods incorporating information letters were balloted at the D02 level. One negative was received on the revision to the OSCT test method. The negative was withdrawn following the issuance of a follow-up information letter incorporating the voter's suggested changes.

Twelve revisions to test methods associated with the SI units project were balloted at the D02 level. Two negatives were received. The negatives were resolved via editorial changes and were subsequently withdrawn.

Fifteen revisions to test methods associated with the SI units project were balloted at the Subcommittee B level. Two negatives were received. The negatives were resolved via editorial changes and were subsequently withdrawn.

The Section held a discussion regarding problems associated with developing a precision statement for the quantitative portion of the Storage Solubility and Compatibility test, currently being facilitated by Terry Bates. It was agreed that Terry will write the quantitative portion of the method in an appendix as a non-mandatory procedure for measuring any observed precipitate from the qualitative portion of the method.

Facilitator Assignments

Facilitator assignments were reviewed. The updated assignment list is shown in Attachment 4.

Old Business

There was no old business.

New Business

There was no new business.

Next Meeting

The next meeting is scheduled for June 22, 2009 in Norfolk, Virginia.

Adjournment

The meeting was adjourned at approximately 8:40 am.

John L. Zalar
Chairman, ASTM D02.B0.10

Attachments

ASTM INTERNATIONAL

ASTM ATTENDANCE SHEET

Please Print Clearly

MAIN/SUB/TASK GROUP: B.10 LOCATION: TAMPA, FL DATE: 12/8/08

Name	Company & Address	Phone	Fax	E-Mail
E. A. Hap Thompson 404 Twin Oaks Lane Jacksonville, FL 32259	Consultant	9042878596	Same	hapjthom@aol.com
Michael Kasimirsky	ASTM Test Monitoring Center	412 365-1033	412-365-1047	mtk@astmtmc.cmu.edu
Terry Bates	Monests Consultancy Ltd	+441513421193	—	batsterryw@aol.com
Jerry Gropp	Lubrizol Corp.	440-347-1223		jerrold.gropp@Lubrizol.com
Joe Franklin	Intertek	210-523-4671		joe.franklin@intertek.com
JOHN ZALAR	ASTM TMC	412-365-1005	412-365-1047	JLZ@ASTMTMC.CMU.EDU

IF YOU WISH TO JOIN THE COMMITTEE PLEASE SEE YOUR STAFF MANAGER OR STOP AT THE ASTM MEMBERSHIP DESK.

ASTM D02.B0.10 Membership List

T. Bates
50 Tower Rd. North
Heswall, Wirral CH60, 6RS
UNITED KINGDOM
+44-151-342-1193
batesterryw@aol.com

L. O. Bowman
728 Montecillo Road
San Rafael, CA 94903
415-479-3004
FAX 415-472-1570
jbfoodie@comcast.net

G. E. Callis
Spectrum Corporation
2019 SE Oxton Drive
Port St. Lucie, FL 34952-6066
561-337-5060
FAX 561-337-5061
ecallis@spectrumcorporation.com

M. Cooper
Chevron Oronite Co.
4502 Centerview Dr. Suite 210
San Antonio, TX 78228
210-731-5606
FAX 210-731-5699
mawc@chevrontexaco.com

J. Franklin
Intertek Automotive Research
5404 Bandera Road
San Antonio, TX 78238
210-523-4671
FAX 210-684-6074
joe.franklin@intertek.com

J. Gropp
The Lubrizol Corporation
29400 Lakeland Blvd.
Wickliffe, OH 44092
440-347-1223
FAX 440-347-1555
jlg@lubrizol.com

T. Selby
Savant, Inc.
4800 James Savage Road
Midland, MI 48642
989-496-2301
FAX 989-496-3438
tselby@savantgroup.com

P. L. Stringer
31 Seguin Street
Ottawa, Ontario K1J 6P2
CANADA
613-746-0647
FAX 613-746-9292
stringbeans@ca.inter.net

W.Sullivan
W. T. Sullivan, Inc.
5 Scheiber Drive
Brick, NJ 08723
908-930-3512
FAX 267-220-7750
wtsullivan@comcast.net

E. A. Hap Thompson
PPL Standards Development
404 Twin Oaks Lane
St. Johns, FL 32259
904-287-9596
FAX 904-287-9596
hapjthom@aol.com

B. Weber
Southwest Research Institute
6220 Culebra Road
San Antonio, TX 78228-0510
210-522-5911
FAX 210-684-7523
bweber@swri.edu

J. Zalar
ASTM Test Monitoring Center
6555 Penn Avenue
Pittsburgh, PA 15206
412-365-1005
FAX 412-365-1047
jlz@astmtmc.cmu.edu

Facilitator Report to ASTM Section D02.B0.10 Standards Acceleration

Facilitator: Terry Bates
Report period: June 2008 to Dec 2008

Cummins ISB method

The draft approved by the ISB Surveillance Panel in May 2008 has been successfully balloted by Sub B in June 2008 and by D02 in Sept.2008. The method has been assigned **D7484-08** and is now published.

There were no negatives in either ballots and only one comment (to an abstention vote) which was withdrawn after discussion.

Inclusion of GF-5 elastomers in the Elastomer Test Method D 7216

ILSAC require five elastomers intended for GF-5 to be added to the Elastomer Test Method D7216. It was agreed with the SP chair that a self-standing Annex describing the procedure for the GF-5 elastomers was the preferred option as this allows the tests for HD and PC elastomers to be clearly distinguished.

A draft Information Letter, comprising the new Annex and some editorial changes to the main body of the method, was prepared and approved, with some changes, by the Surveillance Panel. The TMC initiated the Sub B ballot on Oct. 30, 2008. The results of this ballot were as follows:

- 49 affirmative, 0 negative, 51 abstain.

The Information Letter is now effectively part of D7216 and can be used for GF-5. At the next revision of D7216 the content of the IL will be added to the method and the revision will be balloted at D-02.

ROBO Test Method

This is a bench test designed to replace the Seq. IIIGA oil ageing engine test and has potential for use in ILSAC GF-5. A draft of the ROBO method was received in June 2008 with a target that a Sub B ballot should be completed by Dec 5, 2008.

With good co-operation from the SP chair, Alan Flamberg, a final draft was developed for approval by the Surveillance Panel on Oct. 31, 2008. (As a measure of the input involved, the original and final drafts were 3700 and 7400 words long. In addition, an Information Pack was developed for uploading on the TMC website to assist new users in setting up the apparatus.) In parallel, the SP successfully carried out a precision round robin and wrote a Research Report which allowed a robust precision statement to be written for the method.

The draft was approved by the SP on Nov. 3, 2008 and the Sub B ballot initiated with completion on Dec. 5, 2008. The unofficial results of the ballot so far are:

- 30 affirmative, 0 negative, 11 abstain.

There have been no comments. Assuming no last minute negatives, a D02 ballot will be initiated in Jan. 2009 and the method should be available for use in GF-5.

Storage Solubility and Compatibility Test (SSCT) for Gear Oils

This test is under the jurisdiction of Section 3 and involves combining two independent FED methods written in 1986. (FED–STD–791/3440.1 *Storage Solubility Characteristics of Universal Gear Oils* and FED–STD–791/3430.2 *Compatibility Characteristics of Universal Gear Oils*.)

An original draft required extensive revision to make a coherent single test from the two individual independent tests. A draft with many queries was sent to the Surveillance Panel for comment in May 2008. Significant input has been obtained from Becky Grinfield (SWRI are the only lab conducting the test) and a new draft was produced in Nov. 08. This draft still

needs further work and SP input to further consolidate the two tests into a coherent ASTM method.

There are two outstanding issues both of which will need resolution by the Surveillance Panel before we can ballot:

a) Testing of the reference oils: Six reference oils are used to determine test oil compatibility. These reference oils are typical of the additive and base oil technology currently used for gear oils and do not normally produce residues on storage. As currently written the method requires the reference oils to be tested each time a test oil is subjected to the compatibility tests. The Surveillance Panel needs to address the reason for testing the reference oils, the section of the test where they should be tested and the frequency of testing.

b) Precision data: No precision data is available and it is unlikely that data can be generated to allow r and R to be determined. This is because only one lab runs the test (so R cannot be determined) and reference and test oils normally do not give residues so r cannot easily be determined.

Although the method allows quantification of any residues formed, the test appears to be mainly a pass/fail type of test (i.e. residue is found or not found). One option regarding precision is that only **qualitative** results are reported (i.e. residue or no residue). All quantitative measurements could be placed in a (non-mandatory) Appendix where they would be available if required. Because they are not reported, they do not need to feature in the precision section (as with Seq. IIIG oil consumption). We can then invoke A21.5.1 of the ASTM Form &Style for the precision statement:

11.1 Precision and Bias—Because the reported test results are non-quantitative, no information is presented about either the precision or bias of this Test Method for measuring residues formed during storage, or during the compatibility tests with reference oils.

Input from the Surveillance Panel is required to resolve how to address the precision statement issue.

In the event the method achieves ASTM standard status, SAE J2360 should to be revised to replace the FED methods by the ASTM method.

Lyle Bowman's Facilitator Report to B-10
Dec. 8, 2008

I've spent about 240 hours on various assignments since the June Meeting. The bulk of my efforts have been the implementation of the ASTM Units Directive, resulting in 12 D-2 Ballot items and 15 Subcommittee B ballot items, which were balloted prior to this meeting.

Of these 27 ballots, there were three negative votes on D02 ballot items and two Subcommittee ballots received negative votes. Three of the negative voters expressed concern about replacing historically acceptable units with 'new' ones. The ASTM editor approved the resolutions of these negatives as being editorial. The other two negatives were simple editorial matters. All five of these voters withdrew their negative votes.

In one case, in D 6750 (1K/1N), an 'SI only units' revision, the concern was in substituting g/MJ for g/kWh as the unit for oil consumption. The voter (Hind M Abi-Akar) pointed out that not only was kWh historically important, it also was an accepted SI unit. After corresponding with her and pointing out that the SI 10 standard states that kWh is a deprecated unit and should be replaced with MJ, she agreed that showing g/kWh, followed by and an explanation that g/MJ is the preferred SI unit in the future would resolve her negative.

Another negative vote (by Donald Bartlett) was concerned that in an 'inch-pounds only units' standard, Btu/h (an inch-pound unit) had been inserted in front of the SI unit W (which was placed in parentheses), but W was considered by the voter to be the historically important unit. In corresponding with the voter, he agreed that deleting Btu/h and showing W as the standard unit for 'heat flow rate', plus adding an exception statement in the Scope units section, would resolve his negative.

The third negative vote (by John Graham) was concerned that in an 'SI only units' standard, N (an SI unit) had replaced kgf (a deprecated unit). It was agreed to show both units in the following configuration, 'N (kgf)', and point out the exception in the Scope units section. This action resolved his negative.

The other two negatives were: (1) pointing out an arithmetic error in converting units, and (2) the voter was concerned that the limits of a standard, referenced in the test method being balloted, had been revised. The voter didn't recognize that this revision was properly stated in the balloted test method. A further clarification resolved that negative.

All five corrected ballot items should go on to the next ballot level.

The additional ballot item editorial comments were mainly observations of missed units conversions, which have been corrected. There was one ‘Affirmative with Comment’ that was more substantive.

Hind Abi-Akar noted that in the D 6837 (VIB) units revision ballot item, that the kg/kWh units for BSFC had not been upgraded to kg/MJ as they were in the 1K/1N ballot item for BSOC. I pointed out to her that the BSFC measurements were required as an important part of the VIB test method, while in the 1K/1N method, BSOC was listed as a ‘non-critical parameter’; my argument being that it seemed premature to change the VIB units, but given the circumstances, upgrading the 1K/1N units seemed reasonable. Needless to say, she didn’t ‘buy’ my reasoning and suggested that a statement be placed in the VIB, similar to that in the 1K/1N, explaining why the kg/kWh units were being retained. Thus, I’m recommending inserting a note (the same note as in the 1K/1N to resolve the negative – discussed above) at the appropriate place in the VIB as follows:

Note 5 – The kWh unit is deprecated. The preferred SI unit is the joule (J); 1 kWh = 3.6 MJ.

There will be four more Sub. B ballot items that will be balloted early in 2009. There are also two more completed revisions that are being reviewed by the appropriate surveillance panels; these are intended for concurrent D02/D02.B0 ballots early in 2009.

Also, in-depth reviews were made of the new ROBO and Solubility/Compatibility test methods, and the Elastomer (gasoline engine types) test method annex, along with reviews of several Editor’s proofs and proposed Information Letters.

The section’s approval of this report, including the noted action items, is requested.

E. A. Hap Thompson
404 Twin Oaks Lane
St. Johns, FL 32259
904-287-9596
December 8, 2008

C-13

I received this draft test method in early April 2008. The draft standard was reviewed by me during April and May. My recommended changes were sent to the SP chairman in early May for comments. After numerous attempts (without success) to get the SP chairman to complete his review or provide me feed back, the TMC engineer and I will send the revised test method to the SP for comments during December 2008.

D 5760

The standard was reviewed and recommended changes were sent to the SP chairman in early June. The standard was balloted within SC B during September-October 2008. The SP chairman found an error in the ballot and the standard was successfully re-balloted in SC B during October-November 2008. D5760 will be on the first 2009 D02 ballot.

Sequence VID

I received the draft test method during late November 2008, and I have begun my review. I expect to complete my review sometime late December 2008 or early January 2009.

Respectfully submitted,
E. A. Hap Thompson

E. A. Hap Thompson, Facilitator

Current Facilitator Assignments

Facilitator	Methods
T. Bates	SSCT, ROBO
L. O. Bowman	Methods Updates, D4485, SI Units
P. L. Strigner	None
E. A. Thompson	C13, D 5760, Sequence VID, PM-2