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Committee D02 on PETROLEUM PRODUCTS AND LUBRICANTS

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Reply to: November 14, 2006
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Unapproved Minutes of the November 7, 2006 Sequence VG Surveillance Panel Meeting
held in San Antonio, Texas

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The meeting was called to order at 9:00 AM by Chairman Andy Ritchie. A copy of the agenda was circulated and is included as Attachment 1.

Membership Changes: A list of members present is included as attachment 2. Membership changes include: Dan Worcester replaces Bill Buscher for Southwest Research, Al Lopez replaces Dan Worcester for Intertek and George Szappanos replaces Jerry Brys for Lubrizol.

Motion and Action Item Recorder: Bill Buscher agreed to be the motion and action item recorder for the meeting.

Approval of 6/6/2006 Minutes: Minutes from the June 6, 2006 meeting were approved with no comments

Review of Motions and Action Items from 6/6/2006 Meeting:

1. Motion – Approval of Minutes for 11/09/05. Approved without changes.

Andy Ritchie / Bill Buscher / Passed unanimously

Done.

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2. Action Item – Chairman of the LTMS, Ben Weber to investigate the pros and cons of the new IIIG LTMS system and study how well it could potentially be applied to the VG. Ben will send a request for feedback to the ACC chairman, to obtain additional feedback for this investigation. Report back to the group by the November 2006 meeting.

NOTE: Carryover from May 2005 Surveillance Panel meeting.
Incomplete. Unsure of current status.

3. Action Item – Labs to send an e-mail to Jim Carter at Haltermann indicating who should receive the analysis results for their monthly (run tanks) or bi-monthly (storage tanks) fuel tank samples. All fuel tank samples analyses will also be copied to the TMC to be kept in a confidential database.

Needs to be updated for most recent memberships changes. Labs to contact Haltermann with any updates.

4. Motion – Add the following wording to section 7.3 “Reusable Engine Parts” of the Sequence VG test procedure: Camshafts can be used for up to 4 runs. Camshafts will be saved and stored at the labs after completing 4 runs, for potential future use for additional runs. Effective 06/06/06.

Bill Buscher / Dan Worcester / 8 For 0 Against 3 Waive

Done. Issued Information Letter No. 06-1 on June 16, 2006.

5. Action Item – Labs to send any available camshaft wear data to Mike Riley at Ford for review to support camshaft reuse motion.

Done.

6. Action Item – TMC to assign reference oil 1007 for each lab’s next reference test in order to generate data with reference oil 1007 on the new fuel batch. This data will supplement existing reference oil data on the new fuel batch for potentially updating the fuel correction factors.

In process. Pending test results from labs.

Test Sponsor Report: Mike Riley was attending the meeting via telecom and no formal Test Sponsor report was given.

Test Monitoring Center Report: A full copy of the Test Monitoring Center Report can be viewed via the following link:

<http://ftp.astmtmc.cmu.edu/docs/gas/sequencev/semiannualreports/vg-10-2006.pdf>

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The current reference oil trends are shown below:

<u>Variable</u>	<u>Pooled s</u> <u>All Oils</u>	<u>Mean</u> <u>Delta/s</u>	<u>Confidence</u> <u>Interval</u>	<u>Based</u> <u>on</u>	<u>Delta in</u> <u>Reported</u> <u>Units</u>
RAC	0.25	0.765	8.00 - 8.38	8.0	0.19
AES	0.36	0.658	7.76 - 8.32	7.8	0.24
APV	0.18	0.218	7.40 - 7.68	7.5	0.04
AEV	0.15	-0.206	8.76 - 8.98	8.9	-0.03
OSCR	0.564	-0.297	10.1 - 26.9	20	-2.3

There were no questions or comments on the TMC report.

RSI Report- There were no questions on the emailed report.

Note: Test activities remain on the low side.

No. of Reference Tests	No. of Non-Reference Tests
10	40

Fuel Supplier Report: Approximately 400K gallons of the current fuel batch left, which is ~5 years worth of fuel based on current usage. There have been no adjustments to the fuel in storage this period. A copy of the report is included as Attachment 3.

Operations and Hardware Issues: Dan Worcester made a motion to expand blowby rework limitation s out from 48 to 72 hours. Several members expressed concerns that conducting a re-ring at 72 hours may not allow sufficient test time to properly seat the rings. Dan also proposed an optional control method for stage 3 fuel control via a solenoid. After some discussion, both motions were tabled until Dan forwards additional information to panel member for further review and refinement.

Rater Calibration: Frank Farber proposed wording changes to Test Method D 6593 to remove sludge from the requirement to for a rater to generate data meeting CRC's definition of Blue, White or Red. Provisions for raters who do not meet CRC's definition of Blue, White or Red to generate additional data were also addressed. After some discussion and rewording, the panel agreed to the procedure changes by a vote of 10 for, 0 against and 1 waive. A copy of the procedure changes is included in the listing of Motions and Action Items from this meeting (Attachment 4).

Parts Buy Out: Solicitations for the parts buy out have been received. Southwest Research's purchase order was lost by their purchasing department, but has since been located and processed. Afton Chemical representatives had questions about the pricing of storage and packaging of many of the many small parts. After some discussion, the panel agreed to assign an action item to define what inspections and repackaging will be done to these parts.

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Scope and Objectives: Scope and objectives were reviewed and updated. A copy of the updated Scope and Objectives is included as Attachment 5.

The meeting was adjourned at 11:20 AM.






Agenda
Sequence VG Surveillance Panel
November 7th 2006 9:00–12:00 noon
San Antonio

1. Chairman comments.
2. Attendance sign-in distribution.
3. Membership changes.
4. Motion and Action recorders.
5. Approval of minutes for June 6th 2006. All
6. Review action items from last meeting. Andy Ritchie
7. Test Sponsor report. Mike Riley
8. TMC Report. Questions on semi-annual report. Rich Grundza
9. RSI Report. Questions on semi-annual report. Bill Mahoney
10. Fuel Supply Report. James Carter
11. Operational and Hardware Items. All
12. Parts Buy for GF-4 and GF-5 All
13. Review Scope and Objectives. All
14. Old business All
15. New business All
16. Adjourn


VG November 7th 2006

Attachment 2



MEMBERSHIP
ASTM SEQUENCE VG SURVEILLANCE PANEL

Name	Company-Address-Phone-Fax-Email	Signature	Voting Member
Araiazo, Beto <i>CLAYTON J. Knight</i>	Test Engineering, Inc 12718 Cimarron Path San Antonio, TX 78249 Phone: 210-877-0228 Fax No: 210-690-1959 Email: baraiza@tei-net.com <i>CKnight@TEI-net.com</i>		Yes ✓
Bendele, Larry	Southwest Research Institute P.O. Drawer 28510 San Antonio, TX 78228-0510 Phone: 210-522-2824 Fax No: 210-684-7523 Email: lbendele@swri.edu		No
Bowden, Dwight	OH Technologies, Inc. 9300 Progress Parkway P.O. Box 5039 Mentor, OH 44061-5039 Phone: 440-354-7007 Fax: 440-354-7080 Email: dhbowden@ohtech.com		Yes
Brys, Jerome	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, OH 44092 Phone: 440-347-2631 Fax: 440-347-4096 Email: jabs@lubrizol.com		Yes NO
Buck, Ron	Test Engineering, Inc 12718 Cimarron Path San Antonio, TX 78249 Phone: 210-877-0221 Fax No: 210-690-1959 Email: rbuck@tei-net.com		No
Buscher, Bill A.	Buscher Consulting Services P.O. Box 112 Hopewell Junction NY 12533 Phone 845-897-8069 Fax 845-897-8069 Email: buschwa@aol.com		No
Buscher, William A	Southwest Research Institute P.O. Drawer 28510 San Antonio, TX 78228-0510 Phone: 210-522-6802 Fax No: 210-684-7523 Email: wbuscher@swri.edu		Yes NO
Carter, James	Dow 2296 Hulett Road Okemo MI 48864		Yes

	Phone: 517 347 3021 Fax: 517-347-1024 Email: jecarter@dow.com		
Caudill, Timothy	Valvoline 22 nd and Front Streets Ashland KY 41101 Phone: 606-329-1960, ext 5708 Fax: 606-329-2044 Email: tcaudill@ashland.com	<i>Tim Caudill</i>	Yes
Clark, Sid	GM Powertrain Mail Code 480-106-160 30500 Mound Road Warren, MI 48090-9055 Phone: 586-986-1929 Fax: 586-9986-2094 Email: Sidney.l.clark@gm.com	<i>see update</i>	Yes <i>Sid.</i>
Farber, Frank	ASTM Test Monitoring Center 6555 Penn Avenue Pittsburgh, PA 15206 Phone: 412-365-1030 Fax: 412-365-1045 Email: fmf@astmtmc.cmu.edu	<i>f m f</i>	No
Farnsworth, Gordon	Infineum USA L.P. 1900 East Linden Avenue P.O. Box 735 Linden NJ 07036-0536 Phone: 908-474-3351 Fax: 908-474-3637 Email: Gordon.Farnsworth@infineum.com		Yes NO
Florkowski, Dennis	DaimlerChrysler Corporation CIMS 482-00-13 800 Chrysler Drive East Auburn Hills, MI 48326-2757 Phone: 248-576-7477 Fax: 248-576-7490 Email: fd11@daimlerchrysler.com		Yes
Glaenger, Dave	Afton Chemical Corporation 500 Spring Street Richmond VA 23218-2158 Phone: 804-788-5214 Fax: 804-788-6358 Email: dave.glaenger@aftonchemical.com	<i>DG</i> <i>Ed Altman voting member</i>	Yes NO ✓
Gomez, Redescal	Intevp S.A. Los Teques, Edo Miranda Adpo 76343 Caracas 1070-A Venezuela Phone: 9-011-582-9086754		

	Fax: 9-011-582-9087723 Email: gomezriv@pdvsa.com		
Hyndman, C. W.	Roh Max USA 727 Norristown Road Spring House PA 19477 Email: charles.Hyndman@degussa.com		
Lai, Patrick S.	Imperial Oil Limited 453 Christina Street South Sarnia, Ontario N7T 8C8 Canada Phone: 519-339-5611 Fax: 519-339-5866 Email: Patrick.k.lai@esso.ca		No
Lopez, Al	PerkinElmer Fluid Sciences 5404 Bandera Road San Antonio, TX 78238 Phone: 210-647-9465 Fax: 210-523-4661 Email: al.lopez@perkinelmer.com		
Miranda, Timothy	BP Lubricants USA 1500 Valley Road Wayne, NJ 07470 Phone: 973-305-3334 Fax: 973-686-4039 Email: timothy.miranda@bp.com		Yes
Riley, Mike	Ford Motor Company 21500 Oakwood Boulevard POEE Building, Mail Drop #44 Dearborn, MI 48124-4091 Phone: 313 Fax: 313-845-3169 Email: mriley2@ford.com		Yes
Rumford, Robert	Dow 1201 Sheldon Road P.O. box 0429 Channelview TX 77530-0429 Phone: 832-376-2213 Fax: 281-457-1469 Email: rhrumford@dow.com		No
Sutherland, Mark	Chevron Oronite Company, LLC 4502 Centerview Drive Suite 210 San Antonio, TX 78228 Phone: 210-731-5621 Fax: 210-731-5699 Email: msut@chevrontexaco.com		Yes
Walker, David	AER Manufacturing, Inc. P.O Box 979		

by phone

	1605 Surveyor Boulevard Carrollton, TX 75006 Phone: 972-417-3182 Fax: 972-417-3165 Email: davidwalker@aermfg.com		
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Goldblatt, Irwin	Technical Center 240 Centennial Avenue Piscataway, NJ 08854 3910 Phone: 732-980-3603 Fax: 973-686-4224 Email: Irwin.Goldblatt@bp.com		
Martinez, Jo	Chevron Oronite Co. LLC 100 Chevron Way Richmond, CA 94802 Phone: 510-242-5563 Email: jogm@chevron.com		No

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Yes

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✓ EL Altman

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Sidney.L.Clark@GM.com

PRODUCT: SVGM2
Quarterly COA

Batch No.: TF2221LS20 TF2221LS20 TF2221LS20
Tank No.: 74 74 74
Analysis Date: 8/8/2006 4/1/2006 1/9/2006

PRODUCT CODE: HF295

TEST	METHOD	UNITS	RESULTS	RESULTS	RESULTS
Distillation - IBP	ASTM D86	°F	85	84	86
5%		°F	110	108	111
10%		°F	124	123	125
20%		°F	147	146	146
30%		°F	175	175	175
40%		°F	228	209	208
50%		°F	228	227	226
60%		°F	239	239	238
70%		°F	254	253	252
80%		°F	289	290	287
90%		°F	342	343	341
95%		°F	360	362	358
Distillation - EP			°F	415	417
Recovery		vol %	97.0	97.2	97.7
Residue		vol %	1.0	1.0	1.0
Loss		vol %	2.0	1.8	1.3
Gravity	ASTM D4052	°API	56.8	57.3	57.3
Specific Gravity	ASTM D4052	-	0.752	0.850	0.749
Reid Vapor Pressure	ASTM D323	psi	8.8	9.0	9.0
Existent gum, washed	ASTM D381	mg/100mls	<1	1	1

Sequence VG Surveillance Panel
November 7, 2006
9:00AM – 12:00PM
SwRI, Building 209, Conference Room 103
San Antonio, TX

Motions and Action Items

As Recorded at the Meeting by Bill Buscher

7. Motion – Approval of Minutes for 06/06/06. Approved without changes.
Jerry Brys / Bill Buscher / Passed unanimously
8. Action Item – Chairman of the LTMS, Ben Weber to investigate the pros and cons of the new IIIG LTMS system and study how well it could potentially be applied to the VG. Ben will send a request for feedback to the ACC chairman, to obtain additional feedback for this investigation. Report back to the group by the May 2007 meeting.

NOTE: Carryover from May 2005 Surveillance Panel meeting.

9. Action Item – Due to recent Surveillance Panel membership charges, labs to send an update to Jim Carter at Haltermann indicating who should receive the analysis results for their monthly (run tanks) or bi-monthly (storage tanks) fuel tank samples. All fuel tank samples analyses will also be copied to the TMC to be kept in a confidential database.

NOTE: Carryover from June 2006 Surveillance Panel meeting.

10. Action Item – TMC to assign reference oil 1007 for each lab's next reference test in order to generate data with reference oil 1007 on the new fuel batch. This data will supplement existing reference oil data on the new fuel batch for potentially updating the fuel correction factors.

NOTE: Carryover from June 2006 Surveillance Panel meeting. Pending test results from labs.

11. Motion – Recommend to the Surveillance Panel to widen the time limits on re-rig/re-gaps. Revise Section 12.4.1 of the Sequence VG test procedure, by changing 48 hours to 72 hours.

Dan Worcester / no second / tabled for review of additional data

12.Action Item – Surveillance Panel to review lost test data from semi-annual RSI report before voting on motion listed above.

13.Motion – Recommend to the surveillance panel to include an optional control method to replace the adjustable pot during Stage 3 conditions with the resistor active in the coolant sensor harness, and an alternate source for the Lambda meter.

Section X2.1 to include:

Innovate Technology, Inc.

5 Jenner, Suite 100

Irvine, CA 92618

949.502.8400

www.innovatemotorsports.com.

Dan Worcester / no second / tabled for review of additional data

14.Action Item – Dan Worcester to obtain and supply additional data for Stage 3 closed loop control. Surveillance Panel to review data before voting on motion listed above.

15.Motion – Revise Sequence VG test procedure as follows:

13.1.5 All raters of Sequence VG engine pistons shall attend a CRC Light Duty Rating Workshop every twelve months \pm 30 days and produce data that meets CRC's definition of Blue, Red or White for piston deposits and engine varnish. If a rater is unable to meet this requirement for reasons beyond the rater's control, the rater may follow the steps stated in 13.1.6. Note, the results from the most current workshop are effective 45 days from the completion of the workshop unless a re-test proceeds the 45 days.

13.1.6 At any time (excluding one week after the most current CRC workshop and between re-tests) a rater who at the most recent CRC Light Duty Rating Workshop produced data falling in CRC's Yellow group may visit the TMC offices to attempt to generate data on Light Duty workshop hardware to assess their performance compared to workshop-produced data. The TMC will provide rating booths and lights for this purpose. The TMC will select a minimum of 6 pistons from a collection of workshop parts for the rater to rate; if he chooses, the rater may rate more than 6 parts if prior arrangement is made with the TMC. Provision of all rating aids necessary to rating the parts shall be the responsibility of the rater. The TMC will analyze the data in the same way as workshop data and determine which CRC color group definition it meets. If the data meets the CRC Blue, Red, or White requirements, ratings produced by the

rater may be used for testing. Results from a rater's first or second re-test are effective immediately and void the 45 day grace period stated in Section 13.1.5.

Additional requests to use this procedure are permitted only after the rater receives training from experienced industry raters. After two attempts to complete this procedure, the rater shall attend a CRC Light Duty workshop before making another request.

Frank Farber / Dwight Bowden / 10 For 0 Against 1 Waive

16. Action Item – Clayton Knight to provide a thorough definition of what TEI is providing as the handling service for the industry FCS parts order.