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**Committee D02 on PETROLEUM PRODUCTS AND LUBRICANTS**

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**UNCONFIRMED MINUTES OF THE  
IVD OPERATIONS AND HARDWARE  
PANEL MEETING**

**Held in  
Baltimore, MD  
On October 17, 2000**

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## 1. Call to Order

- 1.1 The meeting was called to order by the Chairman, Jim Brown at 13:05. An attendance list is shown as Attachment 1.
- 1.2 Motions and actions are shown throughout the minutes as they occurred during the meeting. The meeting Agenda and Action Items List is shown as Attachment 2. John Pandosh agreed to record Actions and Motions.
- 1.3 For membership changes, Stephen Knight will represent TEI, John Pandosh will represent Infineum, and other company name changes will be reflected on the next member list.

**Motion:** *Accept the minutes from the last meeting [October 26, 1999].*

*Jim Brown moved, Andy Buczynsky seconded*

**Motion Passed:** *Unanimous*

*NOTE: The minutes actually had September 26, 1999 on the cover page.*

## 2. IVD Engine Hardware

- 2.1 TMC is now going to take an annual hardware inventory for this and the Surveillance Panel meetings.
- 2.2 SwRI has VE new blocks and heads available for use on the IVD test. Contact Jim Brown if there is purchasing interest.
- 2.3 Visteon is now making custom built proms that have been tested. OHT will continue to supply the EEC modules.
- 2.4 Table A2.2 lists a part number for break-in. The value should be "BGC", not "BGB".
- 2.5 There is still a concern on the supply of engines, and now of valve springs. OHT could make springs if not available from Ford. The valve spring numbers are:

E5ZZ-6153-8BMRS

E59E-6A511-A2A [ENGINEERING NUMBER]

- 2.6 Chuck Richardson stated that any critical parts must be supplied by Power Products as parts kits, and not purchased from the dealer network.

**ACTION ITEM:** Chuck Richardson will confirm valve spring suppliers.

**ACTION ITEM:** Jim Brown will supply the return information for the Hessco blocks to Power Products. This was supplied as Attachment 3 in the October minutes, but may no longer be the correct person.

## 3. Operation Problems

- 3.1 There are PCV flow problems, but no other valve is available.
- 3.2 A precision matrix was created, and included as Attachment 6 on the October 1999 minutes. It is included here as Attachment 3.
- 3.3 There is still an issue on IVD reference testing. There is no fuel, though Ethyl has supplied TMC with an additive. This type of testing is unlikely to receive industry support until EPA and/or CARB make procedure changes to allow the IVD to be an alternative or replacement for the BMW vehicle test. This currently has a low priority at both organizations.

**ACTION ITEM:** Jim Brown will present the option of a precision matrix to the Surveillance Panel.

**ACTION ITEM:** Jim Brown will report that reference tests cannot begin without an acceptable reference fuel.

4. Test Procedure

4.1 Dan Worcester had supplied comments from other members in an email that completed the Ad Hoc action of procedure review.

**MOTION:** Dan Worcester mad a motion to recommend to the Surveillance Panel that calibration frequency be changed from every 4 tests or 6 weeks to every 90 days, or prior to the start of a reference test if a stand were idle for an extended period of time.

It was not recorded who seconded this motion, but is was voted acceptable.

4.2 Jim Brown had supplied additional comments that were not made available for the minutes. His comment pages will be converted to “PDF” format, and included on the TMC web page along with these minutes and their attachments.

5. Scope and Objectives

5.1 Jim Brown and Dan Worcester will review the current documents and update them based on the action items from this set of meeting minutes.

5.2 These will be updated for the next meeting at the Spring Fuels and Lubes.

6. The meeting was adjourned at 15:48.

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ATI 2

ASTM D6201 Test Method  
Operations and Hardware Subgroup Meeting  
Baltimore, MD  
October 17, 2000

1. Opening Statements
2. Adoption of Minutes From Last Meeting
3. Hardware Issues
  - 3.1 Continue Monitoring Industry Test Parts Supply
  - 3.2 Projection of Industry Test Parts Supply
  - 3.2 Prepare a Contingency Plan For Parts Supply If Volume of Testing Increased Significantly Due to Inclusion of D6201 Into the Code of Federal Regulations (CFR)
  - 3.3 Other?
4. Operational Difficulties
5. Test Procedure Issues
6. Report of Ad Hoc Procedure Review Group
7. Discussion of Proposed Precision Matrix
8. Reference Fuel and Reference Oil Status
9. Test Stand Referencing
  - 9.1 Availability of Reference Fuel(s)
  - 9.2 Availability of Reference Fuel Additive(s)
  - 9.3 Previous Recommendation for TMC Engineer Lab Visit Prior to Referencing
  - 9.4 Other?
10. EPA/CARB Positions on ASTM D6201
11. Review and Modify Scope and Objectives
12. Old Business
13. New Business
14. Next Meeting
15. Adjourn

Action I - TMC DO PART SURVY  
EACH YEAR FOR 2 SECTIONS  
ASTM MEETINGS.

Passed NO NEG NO WAIVES

Action II - FORD TO LOOK INTO VALUE  
SPRING SUPPLY<sup>REV.</sup> IF FORD CAN'T  
SUPPLY - BOWDEN MAY BE ABLE,  
TO SUPPLY VALUE SPRINGS.

Action III - Jim Brown TO DETERMINE STATUS  
OF PROPOSED PRECISION METRIT.  
IF ALREADY PRESENTED TO SURVEILLANCE  
PANEL - DEFINE THEM ANSWER  
IF NOT PRESENTED - PRESENT.

Action IV - Jim Brown TO GO TO SURVEILLANCE  
PANEL WITH CURCUM THAT 11.1/  
CAN'T BE DONE WITHOUT A PROPER  
REFERENCE FUEL.

Action V - RECONFIRM WHO IS CONTACT @ HESCO  
& FOLLOW UP ON PARTS SOLICITATION  
LETTER VIA CHECK. - VALUE SPRINGS

ON DOWN TIME / TEST TIME WRITE-UP.  
12.2.1 (?)

Action JII DAN & JIM TO UPDATE SCOPE  
& OBJECTIVES TO INCLUDE  
TODAY'S ACTION ITEM. USE  
TORONTO MINUTES AS STARTING  
POINT.



## ***Proposed Test Stand Precision/Reference Matrix***

- Need About 9-10 Labs/Stands for Statistical Significance
- One Unadditized Base Fuel Test, Two Additized Base Fuel Tests
- Use 65<sup>th</sup>% Base Fuel – Possibly a Blend of Two or More Supplier's 65<sup>th</sup>% Fuels
- Target 350 mg Avg. IVD for Unadditized Test
- Require About 10,000 gal of Base Fuel
- Results Would Yield a Measure of Discrimination Power
- Results Would Yield Estimate of Repeatability/Reproducibility for a Single Fuel