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## ASTM Sequence VG Operations and Hardware Subpanel Report July 16, 2002 8:00 AM CST San Antonio, Texas

1. Chairman's Comments
  - Dan Worcester
2. Secretary
  - Bill Buscher
3. Motion and Action Item Recorder
  - Rich Grundza
4. Minutes from 11/12/01 Meeting
  - No additions or corrections / Accepted Unanimously
5. Membership Changes
  - Ronald Walker attended for Tim Caudill, Ashland
6. Review of 11/12/01 Action Items
  - Done / No additions or corrections

## 7. VG Romeo Matrix

- Send a letter with several questions to Ford.
- Hardware
  - What is Ford going to provide? Engines and kits?
  - When are the labs going to receive the hardware?
  - Will Ford provide technical support for the life of the VG test?
- Oils
  - What oils to use?
    - Replace 1006 with 1006-2?
    - Use 925-3?
    - Use 1009?
    - Do we want to use the oils that we can correlate back to development work or new oils?
  - MOTION:** Recommend to the surveillance panel to use 925-3 and 1009 for matrix. Rich Grundza/Dwight Bowden Approved Unanimous
- Test Conditions
  - All original test conditions with potential extended test length.
  - Perform intermediate inspections and conference calls at 216 hours, 240 hours, 252 hours and 264 hours if necessary.
- Special Equipment
  - BHJ Honing Plates (available from OH Technologies)
  - BHJ Ring Standard for 0.25MM piston rings (available from BHJ)
  - European type sludge rating tool (available from TEI)
- Details
  - Need an instruction packet for the matrix.

## 8. Cylinder Bore Measurements

- None of the labs seem to have the equipment capable of measuring surface profile traces on the 4.6L engine blocks.
- Ford measures cylinder # 1 and # 5 at one location at the front of the bore. A two (2) inch trace is performed across the top of the ring travel area (same as Mack T10).
- Ford uses a Hommelwerke device for this measurement (not a portable device).

## 9. Truck Cam Journals

- SwRI presented data. Believe the problem to be out-of-round and surface finish of the camshaft journals.
- SwRI to present this data and findings to Ford to see what they can do to resolve this problem for the Romeo hardware.
- Labs to handle this problem for the AER hardware. Rework a quantity of cams to be used on reference testing.

## 10. VG Blowby Measurement

- PerkinElmer has an alternate blowby measurement device that they would like to get approved for VG blowby measurement. Data needs to be gathered and presented. This needs to be addressed at the surveillance panel level.

## 11. Old Business

- None

## 12. New Business

- None

## 13. Adjourn

- The panel expressed their appreciation to PerkinElmer for hosting the meeting.