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### Unapproved Minutes of the January 7, 2009 Sequence IVA Metrology Workshop

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The meeting called to order at 9:00 AM

A copy of the agenda is included as attachment 1.

A list of the attendees is included as attachment 2

An update of several issues was conducted. The results of the cam analysis from the test run at Intertek using EF411 were reviewed. Sulfur was noted in the analysis and this was quite surprising, as this is an unadditized oil. Review of SR recent testing was conducted and their control charts were reviewed. SR will need to reference 3 stands shortly. It was suggested that 1009 not be used for reference tests, as it may not give proper severity adjustments. It was mentioned that some cams do not have the proper taper on them. Cleaning of cams was discussed and all labs appeared to be cleaning them in the same manner.

2008 solicitations are expected to be available in May of this year. There will be a 2009 solicitation. One difference mentioned with stand 27 was excitation voltage. Eric Liu commented that the dyno excitation voltage was noted to be different on stand 27, when compared to other SR stands. The difference was traced to the dyno controller and when replaced, the excitation voltage came in line with other SR stands. It was suggested that laboratories check the dyno coil resistance.

Cleaning practices were review at SR. The cam is soaked in Stoddard solvent, plugs are removed and the inside of the cam is cleaned with a soft nylon brush. Oil holes are cleaned and a visual inspection is conducted. Any anomalies are identified and addressed. The heel to toe is measured on each lobe and hole diameters are measured. The cam is sprayed with Stoddard solvent and air dried, coated in EF 411 and wrapped in plastic till ready to be measured. It was mentioned that casting flaws on the cam are acceptable, providing they are not in the measured area. If rust is noted, it may be removed with the gray scotch brite.

Measurement techniques were reviewed and demonstrated, especially how to address measuring of “No form” cams. The only action taken was to conduct a round robin after the meeting.

There being no old or new business, meeting adjourned 1:30 PM

# **Sequence IVA Metrology Workshop**

San Antonio, TX

SwRI, Building 209, Conference Room 103

SwRI, Building 75, Metrology Lab

January 7, 2009

9:00 a.m. - 5:00 p.m.

## A G E N D A

1. Introductions.
2. Attendance sign-in sheet distribution.
3. Action recorder.
4. Comparison of PDI hardware and software versions among labs.
5. Review, demonstrate and discuss PDI set-up, maintenance and trouble-shooting.
6. Discuss use of the TEI fixture and degree wheel and determination of BTC and ATC.
7. Review, demonstrate and discuss Sequence IVA camshaft wear measurements procedures and techniques (including anomalies such as missing non-worn edges, scratches, unusual wear patterns for extremely low wear, etc.).
8. Hands-on wear measuring for all metrology technicians.
9. Review and compare the technicians' wear measurements from metrology workshop.
10. Recommend procedural changes to the Surveillance Panel.
11. Plan future activity (2009 round-robin).
12. Wrap-up discussion.
13. Adjourn.

## Sequence IVA Task Force Meeting

San Antonio, Tx  
January 8th, 2009Attendance Sheet

Name	Company	Signature
DAVID CARRON	ASHLAND METRO/BUILD	David Carron
ERIC LIM	SWRI Metro/Build	Eric Lim
George Castillo	SWRI Build	George Castillo
TOMMY PETERMAN	SWRI Metro	Tommy Peterman
LARRY GARCIA	SWRI Metro	Larry Garcia
BILL BUSCHEN	SWRI BUILD/METRO	Bill Buschen
GEORGE CASTILLO	SWRI BUILD	GC
Mark Mosher	Exxon Mobil Build/Metrology	Mark Mosher
PATRICK COLBY	INTINUM USA BUILD & METROLOGY	Patrick Colby
AL LOPEZ	INTERTEK BUILD & METROLOGY	Al Lopez
CHARLIE McMILLAN	INTERTEK METROLOGY	Charlie McMillan
Rich Grundza	ASTM TMC	Rich Grundza
Greg Seman	Lubrizol	Greg Seman

