

Richard E. Grundza  
Senior Project Engineer  
ASTM Test Monitoring Center  
6555 Penn Avenue  
Pittsburgh PA 15206

## Unconfirmed Minutes of the March 4, 2010 Sequence III ACLW Task Force Conference Call

The teleconference convened at 10:00 a.m. Central.

Attendance -Ed Altman, Jason Bowden, Rich Grundza, Charlie Leverett, Mark Mosher, Greg Seman, Matthew Snider, Adam Bowden, Matthew Bowden, Dwight Bowden, Bruce Matthews, Bob Olree, Jerry Brys, Art Andrews, Tom Hitchner, Sid Clark

There were no comments received on the 02/18/10 Minutes posted on the web. A copy of the conference call agenda is included as attachment 1

Action items from previous meeting were reviewed. A couple of labs still need to provide wear track data.

Action Items 1 and 2 are complete.

Block data review has been completed. Matt Snider reviewed data from blocks, presentation is included as attachment 2. Blocks were selected from operationally valid results.

Discussion of end play measurements was next. Charlie requested that labs begin recording this information. Labs are to present data at next conference call

Measurement round robin phase one complete, end of test is phase 2. Lubrizol will be running on this cam and lifters in a reference test. Dwight expressed concerns about variability between labs. The difference between high and low was 15 um. Charlie made a comment that he would suspect any bias within a lab to carryover to the post test measurements. Some others agreed and it was decided to wait for the post measurements before making any changes to the measurement procedure. Dwight suggested temperature be controlled during measurement. Action item was taken to review temperature control in the procedure. Results should be available from the test March 15<sup>th</sup>.

New Business was addressed. First item discussed was lifter radius. Audit of manufacturer data showed no issues. Some labs showed difference in radius, Matt Snider suggested any suspect hardware be shipped to OHT for review and measurement. OHT agreed to turn around returned material ASAP.

Sid mentioned a crown tester may be available at GMR. Matt Snider was going to try and locate it. OHT will send audit sample material to Intertek for measurement. Charlie may need to develop the measurement technique.

No new business was added.

OHT agreed to re-measure the lifters radius to be run in the reference test by 3/9/10.

Charlie mentioned that visual differences between F and H cams were noted. OHT had contacted vendors and

the covering on the cams is within spec. Visual differences may be due to other factors, such as metallurgy.

Charlie did remind this group the end of the 60 day grace period would be April 6, 2010.

Next conference call will be March 25, 2010.

Meeting was adjourned at 10:33 CST

## Sequence III G Cam Wear Task Force

Thursday March 4, 2010 at 9:00 CT

Call in #: 800-391-9177

Conference Code #: 4875645502

### 1. Roll Call, current members are:

Bruce Matthews & Matt Snider GM

Ed Altman - Afton

Greg Seman - Lubrizol

Pat Lang & Sid Clark - SwRI

Dwight, Jason, Matthew & Adam Bowden - OHT

Rich Grundza - TMC

Bob Olree & Charlie Leverett – Intertek (Task Force Leader) - Intertek

Mark Mosher & Bill Maxwell - ExxonMobil

Tim Caudill – Ashland

### 2. Approve minutes from 2/11/10 conference call.

### 3. Review of Task Force Action Item List from 02/18/10

**Action Item 1:** Labs to review retained EOT camshafts for changes wear track location. **Need response from SwRI & Ashland**

**Action Item 2:** OHT to determine availability of old lifter material for analysis of dimensions and hardness. Available lifter(s) to be measured at Lubrizol.

**Completed**

**Action Item 3:** Lubrizol to check hardness of retained EOT lifters and review initial height measurements taken prior to use min engine testing. **Completed**

**Action Item 4:** Bruce Matthews/GM to review block data for any shifts.

**Action Item 5:** Labs to review camshaft end play data. **Inproces**

**Action Item 6:** OHT to modify Intertek Y<sub>i</sub> chart to include dateline representing implementation of enhanced packaging procedure. **Completed**

**Action Item 7:** Labs to document camshaft handling procedures from time of receipt to installation into test engine.

**Action Item 8:** TMC to review reference oil viscosity data for any shifts. **Completed**

**Action Item 9:** Determine when solvent change occurred **Completed**

**Action Item 10:** Conduct a measurement round robin on one new IIG test camshaft and a set of test lifters. (Note: Round robin hardware delivered by OHT to Lubrizol on 2/12/2010) **Completed**

**Action Item 11:** Labs to review candidate data. Charlie Leverett to distribute data selection process used by his laboratory. **Need response from SwRI & Ashland**

#### **4. New Business**

- 1.) Review of cam and lifter wear Phase I data
- 2.) Discussion of lifter radius

#### **5. Meeting/Conference Call Schedule**

1. Next meeting

#### **6. Adjournment**

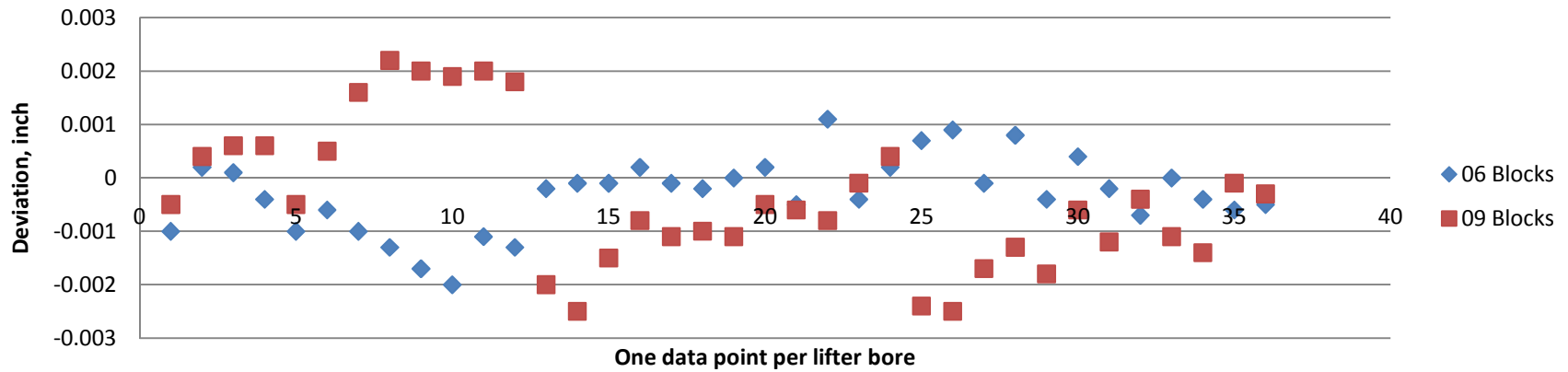
# Review of IIG Block Machining Data for ACLW TF

ACLW Task Force March 2010

Bruce Matthews, Matthew Snider,  
GMPT

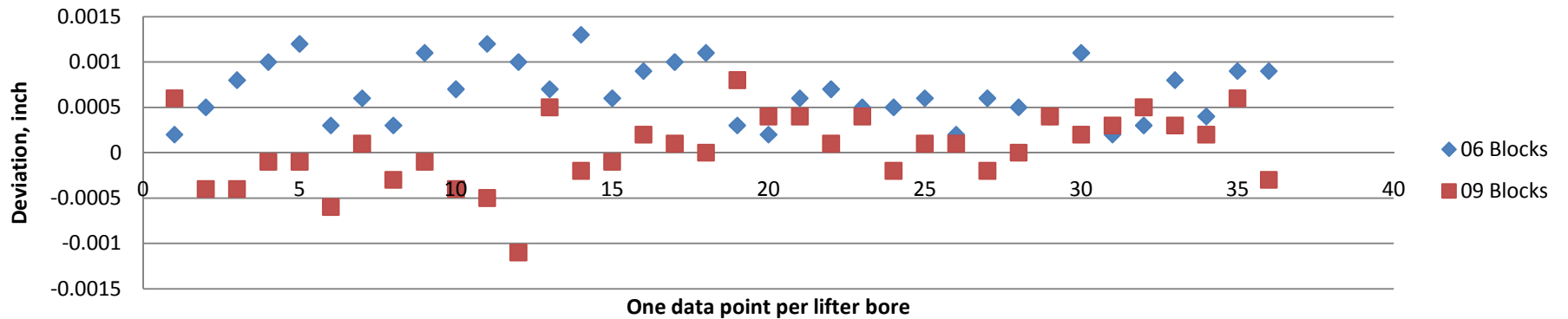
# Lifter Bore at Intersection with Camshaft. Deviation from Nominal

X axis



Tolerance +/- 0.0025

Y axis



# ANSI Perpendicularity: to the X axis in the ZX plane. Deviation from Nominal

