



**Address** 100 Barr Harbor Drive  
PO Box C700  
W. Conshohocken, PA  
19428-2959 | USA

**Phone** 610.832.9500  
**Fax** 610.832.9666  
**Web** www.astm.org

---

### **Committee D02 on PETROLEUM PRODUCTS AND LUBRICANTS**

*Chairman:* KENNETH O. HENDERSON, Cannon Instrument Co., 2139 High Tech Road, State College, PA 16803, (814) 353-8000, Fax: (814) 353-8007, e-mail: kenohenderson@worldnet.att.net  
*First Vice-Chairman:* BEN R. BONAZZA, 3457 WOODVALLEY DRIVE, LAPEER, MI 48446 (810) 664-6769 e-mail: bbonazza@charter.net  
*Second Vice-Chairman:* JANET L. LANE, ExxonMobil Research & Engrg., 600 Billingsport Rd, Paulsboro, NJ 08066-0480 (856) 224-3302, Fax: (856) 224-3616, e-mail: janet.l.lane@exxonmobil.com  
*First Secretary:* RALPH A. CHERRILLO, Shell Global Solutions (US) Inc., Westhollow Tech Ctr., 3333 Highway 6 South, Houston, TX 77082 (281) 544-8789, Fax: (281) 544-8150, e-mail: ralph.cherrillo@shell.com  
*Second Secretary:* MICHAEL A. COLLIER, Petroleum Analyzer Co. LP, PO Box 206, Wilmington, IL 60481, (815) 458-0216, Fax: (815) 458-0217, e-mail: Michael.collier@paclp.com  
*Staff Manager:* DAVID R. BRADLEY, (610) 832-9681, Fax: (610) 832-9668, e-mail: dbradley@astm.org

April 29<sup>th</sup>, 2010

Reply to:  
Galen Greene  
The Lubrizol Corporation  
29400 Lakeland Blvd.  
Wickliffe, OH 44092  
(440) 347-2394  
(440) 347-2878 (FAX)  
ggre@lubrizol.com

ASTM D02.B0.03 L-37 Surveillance Panel  
Members and Guests:

Attached for your review and comment are the unconfirmed minutes of the:

- **April 27<sup>th</sup>, 2010 L-37 Surveillance Panel Meeting**

Please direct any corrections or comments to my attention.

Sincerely,

Galen Greene, Chairman  
L-37 Surveillance Panel

**Report of Meeting**  
**L-37 Surveillance Panel Teleconference**

*April 27<sup>th</sup>, 2010*

Attendees:

Dana -	<b>Miller</b> , Guzikowski, Pappademos,
SwRI -	<b>Koehler</b>
Lubrizol -	<b>Greene</b> , Hamilton, Fier, Gropp
Afton -	<b>Koglin</b> , Bell
Intertek-Parc -	<b>Smith</b>
TMC -	<b>Lind</b> , Parke
Chevron -	<b>Haire</b>
Arvin Meritor -	<b>McGlone</b>
AAM -	<b>Dharte</b>

Voting Members in **BOLD**

The meeting was called to order at 10:30 am EDT.

**1.0 Summary of Meeting Discussions**

**1.1 Review of 2009 Material**

The panel reviewed discussion from the April 20<sup>th</sup> meeting including the DI of the past several hardware batches.

Mr. Miller stated that he would like to see core hardness as well as DI. He went on to explain that this is a function of the particular material DI but there are also other variables involved. He explained that the rate of quenching also has an effect on core hardness. Dana used to use a fast quench but have moved to a slower quench. A slower quench is better for accurately controlling gear geometry.

**ACTION ITEM 1 (Mr. Miller, Mr. Pappademos, and Mr. Guzikowski):** Dana is to pull reports on core hardness for the previous batches discussed during the April 20<sup>th</sup> meeting (and any others available). Dana is to present this data at the next L-37 meeting and give a recommendation on how to proceed.

Mr. Koglin asked if it was easier to get old spec steel. Mr. Miller answered that at the time there was material available that met the old spec. This was the spec used for the 2005 batch which we were trying to emulate. The problem with finding steel for the ASTM group is that the order is relatively low volume. Many manufacturers have a minimum purchase that is well over the requirements of the ASTM group.

The group discussed that the decision regarding the 2009 steel is twofold. The labs have a significant investment in the steel and would likely prefer to proceed with its manufacture if the chance of success was high. However, if the chance of success is in question due to poor material properties, proceeding could waste more time and resources and bring us right back to where we are today.

The consensus of the labs and Dana was to hold off on moving forward with the pilot batch until Dana has time to do an internal review. Dana will come to the next meeting with the additional data and a recommendation.

**1.2 Other Agenda Items**

Discussion of an industry survey on lubrifying and a final decision of how to proceed with shot peening, lapping, and lubrifying was also on the agenda, but the group will wait for data from Dana before discussing these details.

**2.0 Adjournment**

Meeting adjourned at 12:00 pm EDT

Respectfully submitted,

Galen Greene  
L-37 Surveillance Panel Chairman