



## Test Monitoring Center

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MEMORANDUM: 06-043  
DATE: June 9, 2006  
TO: OSCT Mailing List  
FROM: Donald Lind  
SUBJECT: Revised D5662 New Elastomer Batch Approval Protocol

At the May 30, 2006 OSCT Surveillance Panel Teleconference meeting the panel approved a revised protocol for qualifying new batches of elastomers for testing. The revised protocol requires the use of 12 coupons and 12 dumbbells instead of the previously required 6 coupons and 6 dumbbells. Attached is the revised protocol. This protocol shall be used for all new batches of elastomer as of May 30, 2006

DML/dml

Attachment

c: <ftp://ftp.astmtmc.cmu.edu/docs/gear/osct/memos/mem06-043.pdf>

Distribution: Email

## **D5662 Qualifying Protocol for New Batches of Elastomers**

The Central Parts Distributor will notify the labs and the TMC upon receiving a new batch of elastomer from the elastomer manufacturer. The Central Parts Distributor will identify the type of elastomer being received and the tentative receiving date from the manufacturer (if possible).

Once the Central Parts Distributor receives the shipment into their system, they will send out 11 slabs of each new elastomer batch to the labs running the test monitored through the TMC. The manufacturer analysis sheet must accompany the shipment to each lab.

**Initial Elastomer Testing:** After receiving the new elastomer slabs, each lab will cut 12 coupons and 12 dumbbells for each TMC reference oil that will be tested. The initial analysis (initial volume in water and air, and hardness) will be sent to the TMC. TMC will compile the data and send to the test labs for review.

**Reference Oil Elastomer Testing:** After the initial elastomer testing has been approved the TMC will assign the reference oils needed for stressing the new batch of elastomer. Labs will conduct tests on the new batch of elastomer as per test method D5662 using 12 coupons and 12 dumbbells run in 4 test tubes per reference oil. These elastomer(s) will be run as donated reference oil tests. After completion of the reference oil tests the results will be sent to the TMC.

**Analysis:** TMC will compile and plot the data comparing the new elastomer batch with the existing elastomer batches. Plots will be designed to illustrate any elastomer batch or lab differences. Data and plots will be sent to the surveillance panel members. The surveillance panel chairperson will then call a meeting to determine elastomer batch approval.