

Oil Seal Compatibility Test (OSCT) Surveillance Panel Teleconference Meeting Minutes

1/22/2009

D. Bell

Meeting Attendance:

D. Bell (Afton)	J. Gropp (Lz)
B. Grinfield (SWRI)	M. Kasimirsky (TMC)
D. Misich (Lz)	J. Keiter (Lz)
C. Knight (TEI)	T. Marougy (Eaton)
B. McGlone (ArvinMeritor)	

We reviewed the recent reference seal data from Lz and SWRI that is available on the TMC website for the new Fluoroelastomer batch, FL-376, consisting of 200 slabs. Inspection of the FL-376 data relative to Shewart severity limits shows that shore hardness, % volume change, and % elongation fall within the current FL acceptance bands and are very close to typical values in reference oils 160-1 and 161-1.

Motion by B. Grinfield and 2nd by J. Gropp: Effective 1/22/09, Fluoroelastomer batch FL-376 is approved for reference and candidate oil tests since the data are within acceptable limits. Motion approved (6 approved/0 abstention/0 opposed).

TMC is in the process of distributing FL-376 to the test labs for candidate testing as per orders placed by the labs. A new lot of Fluoroelastomer (FL-377, 200 slabs) will be ordered shortly by TMC.

Nitrile (lot NI-333, 320 slabs) was tested by both labs for qualifying this lot and the data is available on the TMC website. The qualification data in reference oil 161-1 passed with values comfortably within the Shewart severity limits. However, the % volume measured by each lab with reference oil 168 were well below the Shewart severity limits that were based on 13 original data points in 2006. TMC will take the action to update the NI Shewart severity limits with the additional data collected since then, but this will not be sufficient for the NI-333 to fall within the new limits. In addition, the % elongation values as measured in reference oil 168 were below typical and one was outside of the lower limit.

Motion by D. Bell and 2nd by J. Gropp: Reject NI-333 based upon the failing % elongation and % volume data generated in reference oil 168. Motion approved (5 approved/1 abstention/0 opposed).

TEI (C. Knight) is to contact the NI seal supplier and request that they absorb the cost of this failing and rejected batch, NI-333. TEI will also immediately order another lot of NI and request that the next production run of NI be scrutinized by the supplier to ensure acceptable product quality and request that the supplier investigate the root cause of the failing NI-333 lot and communicate their findings to TEI.

A new lot of Polyacrylate, PA-339, is also being tested for qualification at both labs, so TMC will notify OSCT chairman when this data is ready for review.