

ASTM HDEOCP Mtg
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**LIAISON REPORT: ASTM TASK FORCE
ON LOW TEMPERATURE RHEOLOGY OF
USED ENGINE OILS (LOTRUO)**

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Recent LOTRUO Activities

- **Thanks to the donation of used oil samples from HDEOCP participants and others over the past few months, the LOTRUO task force now has a sufficient range of test oils for MRV round robin evaluation:**
 - **9 samples including drains from Mack T8/T8E, Cummins M11-EGR and Mack T10 engine tests**
 - **Soot levels of ~5 - 9 %**
 - **MRV viscosities (-25°C) range from <20,000 cP to >800,000 cP**
 - **Samples distributed in mid Oct. to 12 labs for D4684 evaluation at -20°C and -25°C**
 - **In addition, 7 of the labs have indicated they can run modified MRV tests (80°C preheat/sample agitation/MRV cooling)**
 - **Participants agreed to complete the work within 8 weeks**

Recent LOTRUO Activities (Cont'd)

- **Current plan is to have at least the D4684 results completed and some preliminary analysis of the data by year-end**
- **We still welcome additional 1+ gal. samples of relevant used oils should follow-up work be required**
 - **current round robin has depleted available test oil volumes to <1L in some cases**
 - **the task force will continue to look at new low temperature methods that could be of potential use (e.g. extended range SBR, modified gap MRV, etc)**