

3 posters in one!!! POSTER P5

Validation of a Small Engine Based Procedure for Studying Performance of Engine Lube Oils

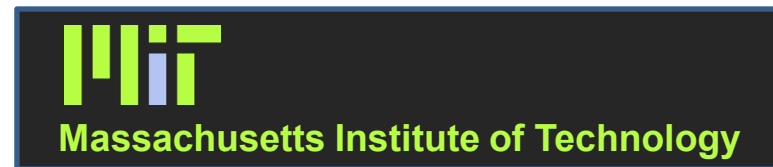
William F. Rohr and Ke Nguyen, UTK
Bruce G. Bunting, ORNL

Ionic Liquids as Lubricants and/or Lubricant Additives

Jun Qu, Peter Blau, Sheng Dai, Huimin Luo, and Bruce
Bunting, ORNL
Greg Mordukhovich, Donald Smolenski, Wensheng Zhang,
and Tasfia Ahmed, GM

Opportunities for Engine Friction Reduction and Durable Design

Bruce Bunting, ORNL
Ke Nguyen and Wil Rohr, UTK
Victor Wong, Arthur Kariya, MIT
MIT: consortium on Aftertreatment, Diesel Engines, and
Lubrication

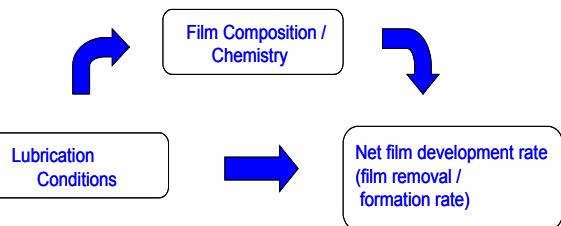
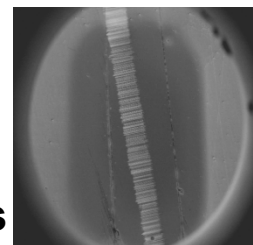
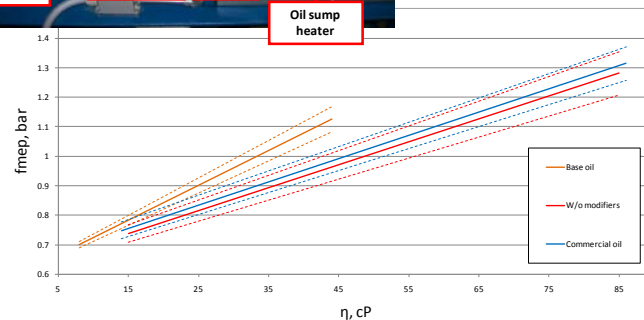
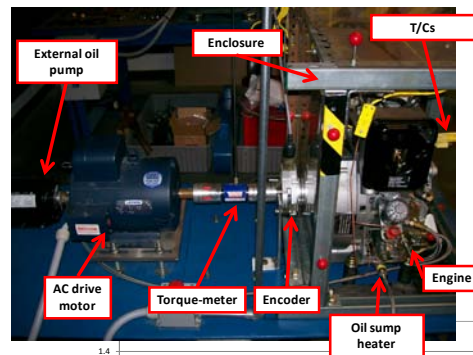


Improve fuel economy through advanced lube oils

- New or existing engines
- DOE Program Goal.....2% fuel economy improvement by 2015

Multiple approaches, multiple partners

- ORNL / UTK
 - Small-engine-based lube friction rig
- ORNL / GM
 - Ionic liquids as engine lubricants
- ORNL / MIT/ UTK
 - Behavior of lubricant reaction film



Purpose of poster

- Introduce projects, tie together, tie to DOE goals
- Solicit input and suggestions

POSTER P5

