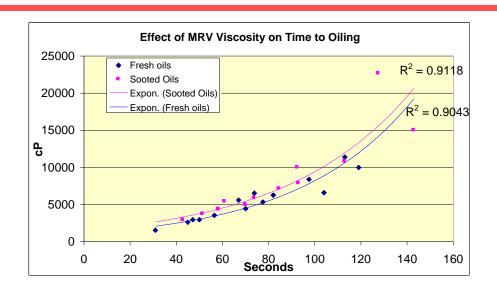
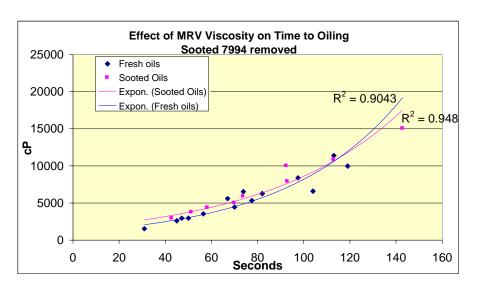
Correlation between MRV and Time to Oil Pressure





Relation of MRV Vis to Cold Pumpability in M11 Engine

- Cummins Inc. and Mack sponsored cold pumpability work in an M11 engine
- Fresh oils were compared to oils sooted to 6.0% to 6.5%
- Used oils with low dispersancy showed higher than expected viscosity in MRV.
- There is a strong correlation between MRV viscosity by modified ASTM D4684