

Impact of Low-Friction Surface Treatments on Engine Friction

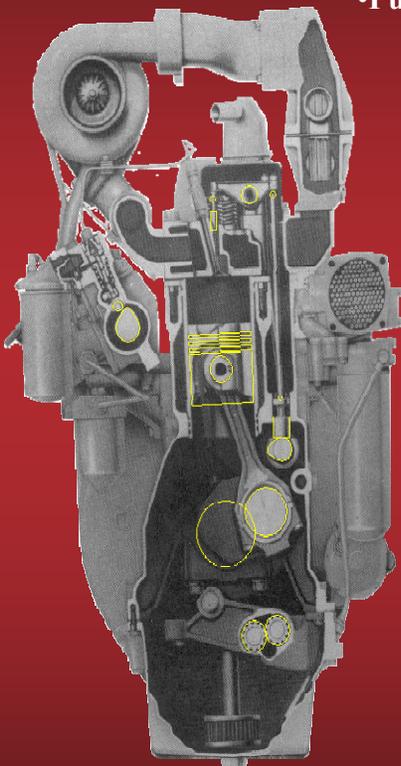
Poster # 22

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P-22: Impact of Low-Friction Surfaces on Fuel Economy

Ricardo



- Rocker bushing *
- Rocker tip to valve *
- Pushrod to rocker interface *

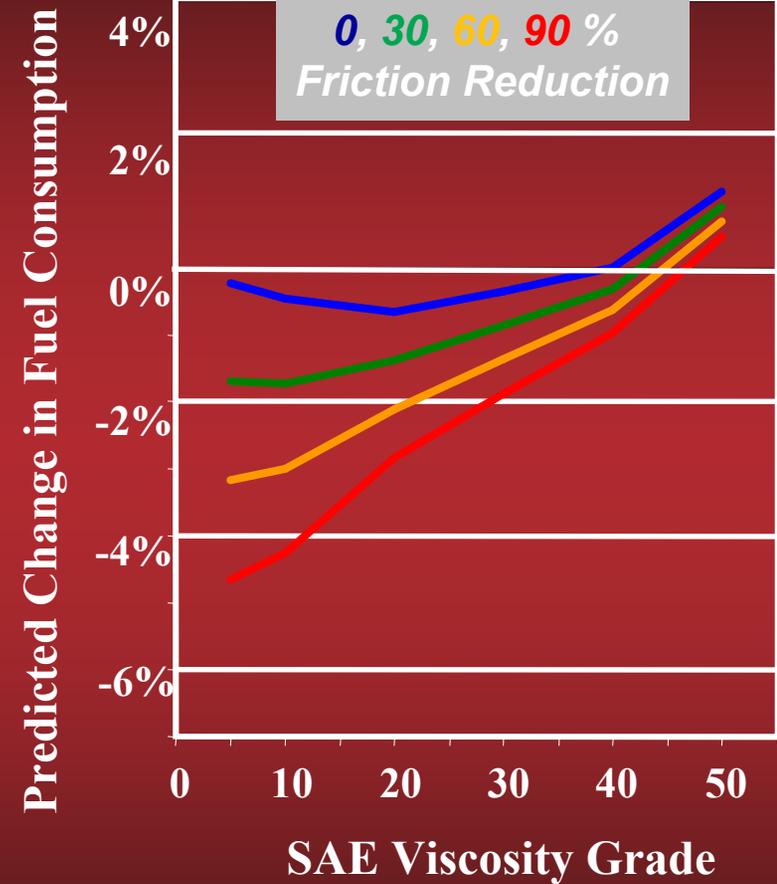
- Piston pin bearing *
- Rings *
- Piston Skirt *

- Cam - follower interface *
- Cam bearings *
- Follower - pushrod interface *
- Timing drive

- Journal bearings
- Crankshaft windage

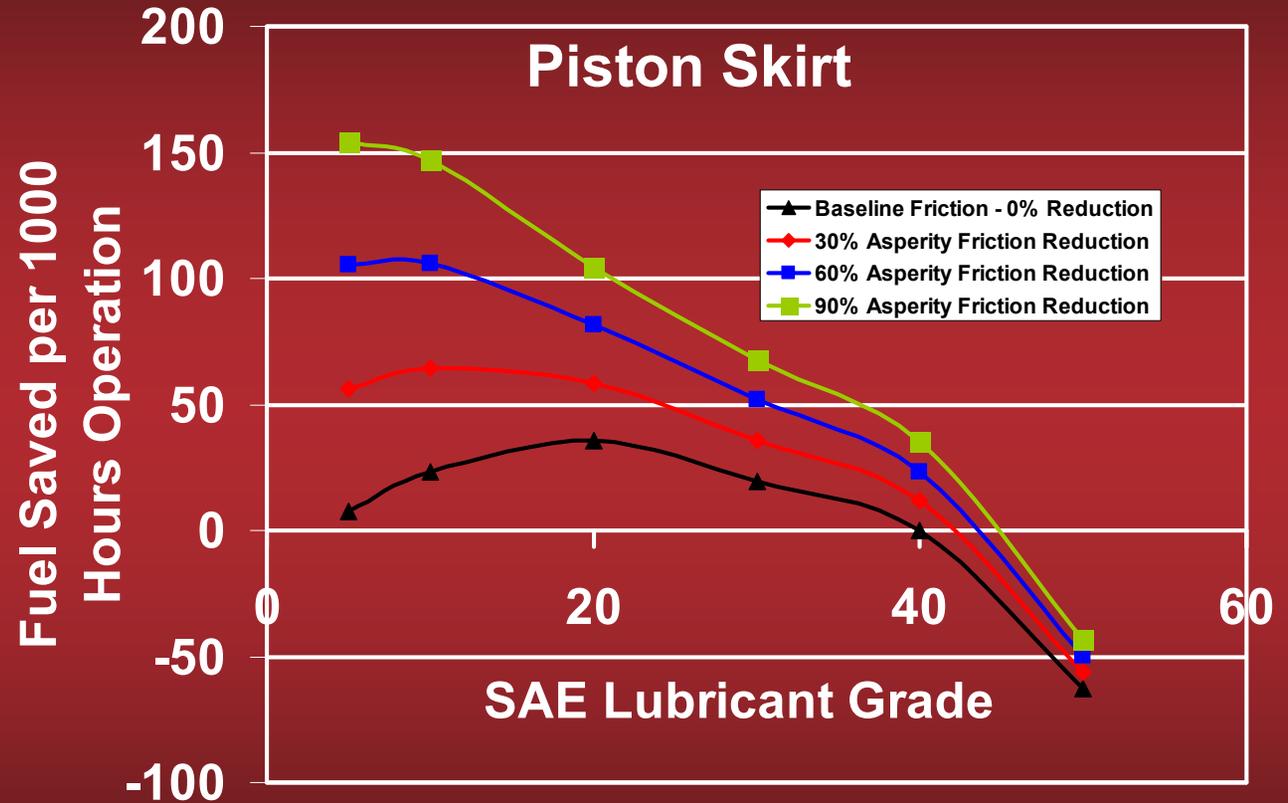
- Crankshaft main bearings
- Main seals *

* interface considered in current study



P22: Impact of Individual Components

- Impact of Low-Friction Surfaces on specific components



P22: Low-Friction Technologies

Lab Tests of Advanced Surface Treatments

