

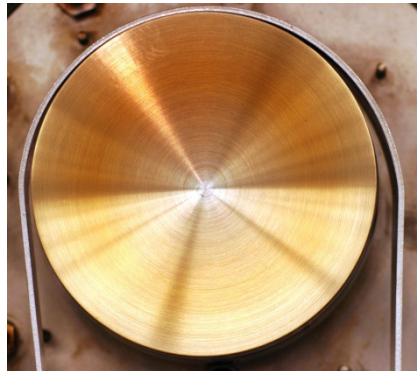
Bench Test Comparison – Oxidation

Thin Film Oxidation (TFO)



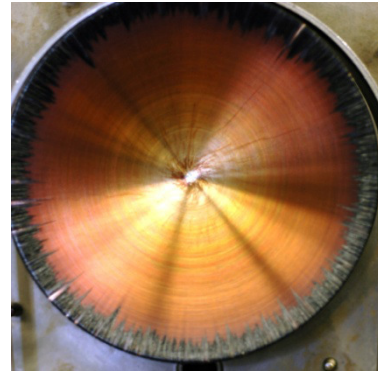
Current
Mobil 1 0W-40

Rating = 94 / 100



Future
Mobil 1 0W-40

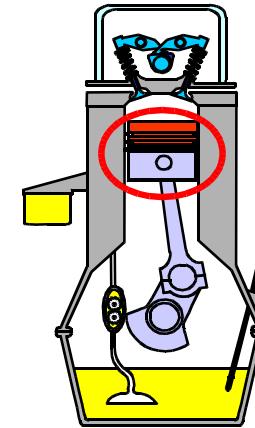
Rating = 90 / 100



Esso Ultron
5W-40

Rating = 63 / 100

Relevant Part of Engine



pistons

Test Description

The test oil is heated to 285°C and directed onto a rapidly spinning (2500rpm) aluminum disc which is heated to 330°C. The test duration is 3 hours. At the end of test the oil is assigned a cleanliness merit rating out of 100.

Consumer Relevance

The test simulates high temperature piston deposit formation. Oils of lower oxidative and thermal stability will result in greater deposit formation. As piston deposits increase, engine efficiency decreases.

ExxonMobil

Lubricants & Specialties 36