

Sequence VIII Test

SPECIFICATIONS

API Category SJ, SL, SM.

OBJECTIVE

To evaluate a lubricant's performance in combating copper/lead/tin bearing corrosion and to measure viscous shear stability under high-temperature operating conditions using unleaded fuel.

FIELD SERVICE SIMULATED

High-temperature, corrosive service. Copper/lead/tin bearings. Field service correlation has not been established.

TEST FIXTURE

A 42.5 C.I.D. carbureted, single-cylinder, spark ignition, CLR oil test engine operated with an external oil heater circuit.

TEST PARAMETERS

The engine runs continuously for 40 test hours. Test speed is 3150 rpm. Oil temperature is raised to (143°C) 290°F using an external oil heater.

TEST PARTS EVALUATION

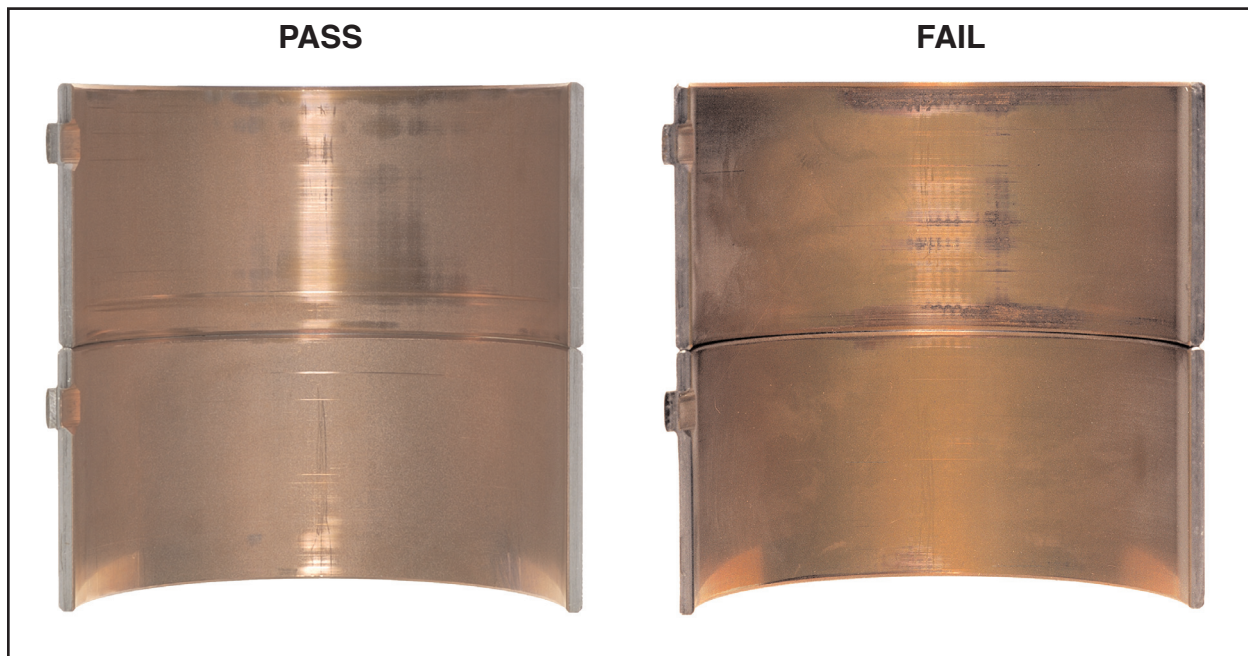
The connecting rod bearing weight loss is measured.

USED LUBRICANT ANALYSIS

- Kinematic viscosity
- Multigrade oils require 10-hour stripped viscosity

PASS/FAIL CRITERIA

26.4 weight loss maximum; stripped viscosity must stay in grade.



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