

PERFORMANCE TESTS

Sequence VG

SCOPE

The Sequence VG is designed to evaluate an oil's ability to prevent excessive sludge and varnish deposits in short trip/low temperature driving conditions. The Sequence VG cycles between cold and hot operation to promote the generation of acid and fuel in the oil.

The test performance parameters are Avg. engine sludge, Rocker arm cover sludge, Avg. engine varnish, Piston skirt varnish, Oil screen clogging, and ring sticking. For GF-4, the test developer (Ford) is investigating the addition of a valve lifter roller pin wear performance requirement.

TEST CONDITIONS

Engine	Ford 4.6L SOHC V-8
Operation	Three stage cycle each 4 hours
Time (minutes)	120/75/45
Speed (RPM)	1200/2900/700
Manifold pressure (KPa absolute)	69/66/record
Oil temperature (°C)	68/100/45
Rocker cover coolant temp. (°C)	29/85/29
Engine coolant temp. (°C)	57/85/45
Test length (hours)	216
Fuel	Haltermann fuel unleaded (Clear)