

API CJ-4 / Cummins ISB

350 Hours, Fuel Sulfur 15 ppm

SPECIFICATIONS

This procedure is approved for API CJ-4.

OBJECTIVE

This procedure is used to evaluate a crankcase lubricant's ability to reduce camshaft lobe and valve train wear.

FIELD SERVICE SIMULATED

This procedure simulates repetitive cyclic operation found in the field with engines configured to meet 2007 emissions regulations.

PROCEDURE FIXTURE

This procedure uses a Cummins ISB, common rail fuel system engine equipped with EGR.

PROCEDURE PARAMETERS

This is a 350-hour procedure. After an initial 100 hours of steady-state operation at 1600 RPM to accumulate 3.25% soot in the oil, the engine is operated for 250 hours on a multi-step, 28-second cycle simulating cyclic operation.

CRITICAL PARTS EVALUATED

Camshaft, mushroom-style slider tappets, crosshead (rate and report)

USED OIL ANALYSIS

Wear metals, soot (TGA), viscosity, TAN, TBN.

PASS/FAIL CRITERIA

	MTAC		
	1	2	3
ACSW 55	55	59	61
ATWL 100	100	108	11

