

GF-5 / ASTM D5133

Gelation Index

Information Taken from D5133

SPECIFICATIONS

The gelation index is an ASTM procedure proposed for GF-5 Performance Category.

OBJECTIVE

The gelation index is an indication of the severity of oil at a low temperature. The higher reported gelation index, the higher the tendency to cause air-binding in the engine.

FIELD SERVICE SIMULATED

N/A

PROCEDURE FIXTURE

The Scanning Brookfield test method, ASTM D5133, is used to determine the gelation index. The gelation index is the maximum rate of viscosity increase. This test method measures the apparent viscosity of engine oil at low temperatures. Analysis of the viscosity/temperature curves produced by the Brookfield determines the gelation index for a particular oil.

PROCEDURE PARAMETERS

The Scanning Brookfield measures gelation index of engine oils by continuously lowering the test temperature while recording

CRITICAL PARTS EVALUATED

N/A

USED OIL ANALYSIS

N/A

PASS / FAIL CRITERIA

12 Max

Oil is to be evaluated from -5°C to the temperature at which 40,000 cP is attained or -40°C, or 2 Celcius degrees below the appropriate MRV TP-1 temperature (defined by SAE J300), whichever occurs first.



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