



ENGINEERING MATERIAL SPECIFICATION

OIL, ENGINE, SAE 50, ASSEMBLY FLUID

WSE-M2C908-B

1. SCOPE

These material specifications define the minimum acceptable performance requirements and physical/chemical properties of engine oils to be used by Ford Motor Company in its worldwide engine/vehicle manufacturing operations.

2. APPLICATION

This specification was released originally for an assembly fluid for pre-lubrication of components in spark ignition and compression ignition engines prior to assembly.

3. REQUIREMENTS

3.0 STANDARD REQUIREMENTS FOR PRODUCTION MATERIALS

Material suppliers and part producers must conform to the Company's Standard Requirements For Production Materials (WSS-M99P1111-A).

3.1 PERFORMANCE

Shall meet or exceed requirements of API Service Categories CF or SJ.

3.2 VISCOSITY

Shall meet all the requirements of SAE 50 viscosity grade as defined in SAE Standard J300 (latest revision), "Engine Oil Viscosity Classification".

3.3 QUALIFICATION PROCEDURE

It is the supplier's responsibility to have the technical evidence and documentation certifying that a given formulation meets all requirements described in this specification. Upon request, supplier must furnish to Fuels and Lubricants Engineering data required to show compliance with this specification.

Upon engineering approval, supplier and Fuels and Lubricants Engineering shall establish mutually agreed upon quality control limits to be listed in Supplement.

4. GENERAL INFORMATION

The information given below is provided for clarification and assistance in meeting the requirements of this specification. Contact gmfs@ford.com for questions concerning Engineering Material Specifications.

5. SUMMARY OF REVISIONS

2014 03 18

Add SAE 50 to title,
Revised 3.1 Performance and 3.2 Viscosity Grade. Eliminated SAE 20W-50
Added Supplement

Date	Action	Revisions	Rev.01
2014 03 18	Revised	See Summary	C E Richardson, NA
2013 01 14	Activated		C E Richardson, NA



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Supplement

Supplier _____

Product Name _____

Product Code _____

Blend Plant _____

Quality Control Certification

Properties

Limits

Frequency

Viscosity at 100 °C

Viscosity at 40 °C

Viscosity Index

Specific gravity, 60 °F

Pounds Per Gallon, 60 °F

Pour Point, °C

Flash Point, °C

Total Base Number, mg KOH/g

Appearance

Elemental Analysis, weight %

Calcium

Phosphorus

Zinc

Date _____

Signature _____ Title _____

Fuels and Lubricants Engr. concurrence _____