



# HAVOLINE<sup>®</sup> MOTOR OILS (GF-4)

## SAE 10W-30

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### CUSTOMER BENEFITS

Havoline Motor Oils (GF-4) deliver value through:

- **Excellent antiwear protection**
- **Improves gas mileage** resulting in lower exhaust emissions
- **Enhanced low temperature protection** over the life of the oil
- **Better high temperature control**
- **Clean engines** and clean positive crankcase ventilation systems resulting from minimal deposit formation under heavy load and stop-and-go driving conditions.
- **Meets or exceeds warranty requirements** of car and light truck manufacturers when SAE 10W-30 is recommended.

### FEATURES

Havoline Motor Oils are premium quality automotive engine oils.

Havoline Motor Oil SAE 10W-30 is formulated with a shear-stable viscosity index improver, and contain detergent, dispersant, wear control, antioxidant, corrosion inhibitor, and foam suppressant additives.

The high viscosity index of Havoline Motor Oils ensures low viscosities at low temperatures for easy cold starting and rapid warmup and high viscosities at high temperatures for fuel economy, oil economy, and effective protective films for engine parts.

Their antiwear additives provide excellent wear protection of critical engine parts.

A high level of dispersancy in Havoline Motor Oils protects against deposit and sludge formation in stop-and-go driving and sustained high temperature operation, and protects against corrosion.

Their excellent high temperature oxidation stability prevents viscosity increase and oil gelling in the crankcase. They keep PCV systems clean to maintain smooth engine performance.

### APPLICATIONS

**SAE 10W-30** is recommended for many older vehicles and a few late model cars and trucks, often those with larger 6-cylinder and V-8 and/or high performance engines. SAE 10W-30 provides improved fuel economy relative to heavier viscosity grades.

Note: Always consult your owner's manual regarding viscosity grade.

Havoline Motor Oils meet:

- **API Service Categories**
  - SM, SL, SJ, SH<sup>1</sup> and all previous API "S" categories
  - Energy Conserving for API SM
  - **ILSAC GF-4**
- **manufacturers' performance requirements**
  - **Ford**  
ESE-M2C153-G  
WSS-M2C153-F
  - **General Motors** GM 6094M
  - **Japanese (JASO)** Valvetrain Wear
- **Department of Defense Commercial Item Description (CID)**
  - SAE J2362 (formerly CID A-A-52039<sup>2</sup>)

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1. Obsolete specification  
2. Replaces MIL-L-46152

TYPICAL TEST DATA

<b>SAE Grade</b>	<b>10W-30</b>
<i>CPS Number</i>	222199
<i>MSDS Number</i>	8599
API Gravity	30.4
Viscosity, Kinematic cSt at 40°C cSt at 100°C	73.5 10.8
Viscosity, Cold Crank, °C/Poise	-25/58
Viscosity Index	135
Flash Point, °C(°F)	232(450)
Pour Point, °C(°F)	-35(-31)
Sulfated Ash, wt %	0.9
Base Number, ASTM D 2896	7.6
Phosphorus, wt %	0.077

Typical test data are average values only. Minor variations which do not affect product performance are to be expected in normal manufacturing.