## Havoline® Formula SAE 15W-40



## Passenger Car Motor Oil

### Product description

**Havoline® Formula** is a highly shear-stable multigrade gasoline engine oil formulated from selected base fluids for use in passenger car and light truck engines requiring API SP or lower performance lubricants.

### Customer benefits and product features

#### **Customer benefits**

- Protection against Low Speed Pre Ignition (LSPI) events
   Specially formulated to protect against LSPI occurrence in turbocharged and/or newer gasoline direct-injection vehicles, which over time reduces engine damage.
- Long engine life
  - Proven metallo-organic anti-wear additive system protects engines under all operating conditions by providing excellent wear control. Multigrade viscosity provides additional protection against wear under high temperature operating conditions.
- Maintains high power and performance Metallic detergent and ashless dispersant additive system
  maintains high power and performance by providing excellent control of piston and ring deposits under high
  temperature conditions.
- Saves on maintenance costs High thermal stability and oxidation resistance provides excellent protection
  against in-service oil degradation that contributes to filter blocking and sludge formation in the oil galleries,
  crankcase and valve train.
- **Low oil consumption** Highly shear-stable viscosity index improver controls oil flow through the piston rings by maintaining high-temperature oil viscosity within the ring belt area in all services.

### **Product features**

- Havoline<sup>®</sup> with Deposit Shield<sup>™</sup> is an advanced detergent formula that helps prevent deposit build up for improved oil stability and increased engine durability.
- Havoline<sup>®</sup> with Deposit Shield<sup>™</sup> provides superior viscosity control that helps maintain engine power and preserve fuel economy.

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## **Applications**

- Naturally aspirated gasoline engines in passenger cars and light commercial vehicles.
- Four-stroke gasoline engines in portable power equipment where the manufacturer recommends conventional passenger car motor oils.

Not recommended for use in engines that require ILSAC or ACEA-classified oils, in turbocharged engines, in CNG or LPG-fuelled engines, or in motorcycle engines.

Product approvals, performance and recommendations

### **Performance**

API SP (licensed)

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## Typical test data

HAVOLINE® FORMULA SAE 15W-40	RESULTS
SAE Grade	15W-40
Product Code	500009
Base No., D2896, mg KOH/g	7.2
Phosphorus, m %	0.07
Sulfated Ash, m %	0.7
Viscosity, mm²/s @ 40°C mm²/s @ 100°C	108 14.4
Viscosity Index	135
Zinc, m%	0.08

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ENVIRONMENT, HEALTH and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit the <u>Product Information Center</u>.

This Product Data Sheet (PDS) was produced for the Asia Pacific region based on the best available information at the time of issue. The specific information included may not directly reflect the market or conditions, and may vary. For the most up-to-date, country-specific information, please contact your local customer service center