Havoline® Fully Synthetic LE

Synthetic Passenger Car Motor Oil

Product description

Havoline® Fully Synthetic LE is a high performance, multigrade motor oil formulated from selected synthetic base fluids and matching additive technology for use in passenger car and light truck gasoline and diesel engines under severe operating conditions.

Havoline Fully Synthetic LE is formulated with reduced levels of metals and the elements phosphorus and sulfur to provide maximum durability of the latest low emission vehicle technologies. It is optimized to provide complete engine protection plus ultimate performance.

Customer benefits

- **Protection against Low Speed Pre Ignition (LSPI) events**
  Specially formulated to help protect against LSPI occurrence in turbocharged and/or newer gasoline direct-injection vehicles, which over time helps reduce engine damage.

- **Maximize engine life**
  Wider temperature range capability of the synthetic base fluid ensures correct oil viscosity to reduce friction at start-up, and to provide maximum lubricity during high temperature operation. The effective anti-wear additive system minimizes wear in even the most sophisticated valve train mechanisms, including those with variable valve timing.

- **Reduced emissions**
  Formulated with technology containing reduced levels of metals, phosphorus and sulfur, it maximizes the life of sensitive catalysts in catalytic converters and reduces the plugging rate of diesel particulate filters.

- **Maximize power and performance**
  Metallic detergent and ashless dispersant additive system ensures maximum power and performance by providing superior control of ring belt and piston skirt deposits, even under the most severe operating conditions. Special friction modifiers assist in reducing friction for maximum fuel economy.

- **Minimize maintenance costs**
  Superior thermal stability and oxidation resistance provides maximum protection against in-service oil degradation which contributes to filter blocking and sludge formation in the oil galleries, crankcase and valve train. Low metal, phosphorus and sulfur formulation extends emission system durability.

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Applications

- Naturally aspirated and turbocharged gasoline and diesel engines in passenger cars and light trucks.
- Low emission passenger car and light duty vehicle engines fitted with latest catalytic converter (gasoline) or diesel particulate filter technology.
- Four-stroke gasoline engines in portable power equipment where the manufacturer recommends conventional passenger car motor oils.

Not recommended for use in gas-fuelled (CNG or LPG) engines, or in motorcycle engines

Product approvals, performance and recommendations

Developed independently by Chevron to comply with the following performance standards and specifications:

HAVOLINE FULLY SYNTHETIC LE	SAE 5W-30	SAE 5W-40
API SQ	Approved	Approved
ACEA C2	Meets requirements	-
ACEA C3	Meets requirements	Meets requirements

Consult OEM representatives for independent verification, updates and recommendations.

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Typical test data

HAVOLINE FULLY SYNTHETIC LE	RESULTS	
SAE Grade	**5W-30**	**5W-40**
Product Code	**500746**	**500747**
Base No. D2896, mg KOH/g	6.7	6.5
Phosphorus, m %	0.07	0.07
Sulfated Ash, m %	0.6	0.6
Sulfur, m %	0.2	0.2
Viscosity,		
mm²/s @ 40°C	68.8	82.1
mm²/s @ 100°C	11.8	13.8
Viscosity Index	168	173

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 Product Information Center.

This Product Data Sheet (PDS) was produced for the Africa, Middle East and Pakistan region in good faith from the best information available at the time of issue. The specific information included may not directly reflect the local market or conditions. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. For the most up-to-date, country-specific information, please contact your local customer service center.

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