

# Havoline® ProDS Fully Synthetic LE SAE 5W-40



## Synthetic Passenger Car Motor Oil

### Product description

**Havoline® ProDS Fully Synthetic LE** is a premium 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 all expected operating conditions.

### Customer benefits and product features

#### Customer benefits

- **Prolonged engine life**  
Wide temperature range capability of the synthetic base fluid ensures suitable oil viscosity to help reduce friction at start-up, and to help provide maximum lubricity during high temperature operation. The effective anti-wear additive system helps minimize wear in even the most sophisticated valve train mechanisms, including those with variable valve timing.
- **Power and performance**  
Metallic detergent and ashless dispersant additive system help achieve maximum power and performance by providing excellent control of ring belt and piston skirt deposits, even under the most severe operating conditions.
- **Formulated to help reduce emissions**  
Formulated with latest generation technology containing reduced levels of metals, phosphorus and sulfur, it helps prolong the life of sensitive catalysts in catalytic converters and reduces the plugging rate of diesel particulate filters.
- **Low maintenance costs**  
Excellent thermal stability and oxidation resistance helps protect 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 helps extend emission system durability.
- **Low oil consumption**  
Synthetic formulation with the highly shear stable viscosity modifier provides excellent control of oil flow through the ring belt area by maintaining oil viscosity and reduces oil evaporation at the elevated ring zone temperatures experienced under all expected operating conditions.

#### Product features

- **Havoline® ProDS Fully Synthetic LE** is formulated to reduce levels of metals and the elements phosphorus and sulfur to provide excellent durability of modern low emission vehicle technologies. It is optimized to provide complete engine protection plus high performance.
- **Havoline® ProDS Fully Synthetic LE** is formulated with a unique viscosity modifier which delivers superb piston cleanliness and sludge performance in engines as demonstrated in the latest BMW endurance test

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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 modern 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

### Approvals

- API SP (licensed)
- BMW Longlife-04
- MB-Approval 229.51

### Meets the requirements of the following performance standards and specifications:

- ACEA C3
- Renault RN 0700/0710

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## Typical test data

HAVOLINE <sup>®</sup> PRODS FULLY SYNTHETIC LE	RESULTS
<b>SAE Grade</b>	<b>5W-40</b>
<b>Product Code</b>	<b>500002</b>
Base No., D2896, mg KOH/g	6.9
Phosphorus, m %	0.08
Sulfated Ash, m %	0.8
Zinc, m %	0.085
Kinematic Viscosity, mm <sup>2</sup> /s @ 40°C	68
mm <sup>2</sup> /s @ 100°C	13.0
Viscosity Index	197

2308

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.

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