

# Havoline<sup>®</sup> Synthetic Blend SAE 10W-40

Passenger Car Motor Oil



## Product description

High performance, multigrade motor oil formulated from a special blend of selected mineral oils, synthetic base fluid and matching additive technology for use in passenger car and light truck fuelled by gasoline or diesel engines under a wide range of operating conditions.

Havoline<sup>®</sup> Fully Synthetic Blend is optimized to help provide full engine protection plus exceptional performance as compared with motor oils formulated with conventional mineral oils.

## Customer benefits and product features

### Customer benefits

#### Helps prolong engine life

Wide temperature range capability provides correct oil viscosity, reducing friction at start-up, and helping provide effective lubricity during high temperature operation. The effective anti-wear additive system provides outstanding wear control in even the most sophisticated valve train mechanisms, including those with variable valve timing.

#### Helps preserve full power and performance

Works immediately upon contact with an engine's moving parts to create a protective coating that shields the engine against deposits preserving power and performance. Provides excellent control of ring belt and piston skirt deposits, even under the most severe operating conditions.

#### Helps reduce maintenance costs

High thermal stability and oxidation resistance provides outstanding protection against in-service oil degradation which contributes to filter blocking and sludge formation in the oil galleries, crankcase and valve train.

#### Low oil consumption

Highly shear-stable formulation provides excellent control of oil flow through the ring belt area by maintaining oil viscosity, and reducing oil evaporation at the ring zone temperatures experienced under all operating conditions.

## Applications

- Naturally aspirated and turbocharged gasoline engines in passenger cars and light commercial vehicles that require SAE 10W-40 viscosity grade oils up to and including API SN or ACEA A3/B4 performance.
- Naturally aspirated and turbocharged diesel engines in passenger cars and light commercial vehicles that require SAE 10W-40 viscosity grade oils up to and including ACEA A3/B4 performance.

*\* Not recommended for use in gasoline or diesel engines that require ACEA A5/B5 or C-series oils, in gas-fuelled (CNG or LPG) engines or in any motorcycle engines.*

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## Product approvals, performance, and recommendations

### Performance standards

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

- API **SN** (licensed)
- ACEA A3/B4
- VW 502 00 / 505 00
- MB-Approval 229.3
- RN 0710/0700

Consult OEM representatives for independent verification, updates and recommendations.

## Typical Test Data

HAVOLINE <sup>®</sup> SYNTHETIC BLEND KEY PROPERTIES	RESULTS
<b>SAE Grade</b>	<b>10W-40</b>
<b>Product Code</b>	<b>500005</b>
Base No. D2896, mg KOH/g	10.4
Phosphorus, m%	0.11
Sulphated Ash, m%	1.3
Viscosity,	
mm <sup>2</sup> /s @ 40°C	103
mm <sup>2</sup> /s @ 100°C	15.0
Viscosity Index	152

This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended. Produced by Chevron Global Lubricants: Asia Pacific.

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 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

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