



Havoline® Pro DS Fully Synthetic ECO 5 SAE 5W-30

Passenger Car Motor Oil

Product Data Sheet

Customer benefits

- **Preserves and protects engines**

Proven metallo-organic anti-wear additive system protects engines under all operating conditions by providing excellent wear control in even the most sophisticated valve train mechanisms, including those with variable valve timing. Low viscosity, multigrade, formulation provides additional protection reduces internal engine friction. Enhanced corrosion protection ensures compatibility with gasoline/ethanol blended fuels up to and including E85.

- **Maintains high power and performance**

Works immediately upon contact with an engine's moving parts to create a protective coating that shields the engine against the deposits that lead to loss of performance. Provides excellent control of piston and ring deposits under high temperature conditions to keep engines clean. Special friction modifiers assist in reducing internal engine friction for maximum fuel economy. Improved control of LSPI (Low Speed Pre-Ignition) events prevention (reduction) which helps to protect turbocharged gasoline direct injection engines.

- **Saves on maintenance costs**

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

- **Improved visco-metric properties**

Improved visco-metric properties, creating less friction in the engine, which contributes to improved fuel economy.

- **Extended drain intervals**

Resists degradation between oil changes, extending the time and mileage interval between oil changes

- **Low oil consumption**

Low volatility, synthetic base oil minimizes oil loss through evaporation.

Product features:

Resource conserving, multigrade gasoline engine oil formulated with synthetic base oils for use in passenger car and light truck engines requiring low viscosity, ILSAC GF-5 or API SN with SN Plus.

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Applications

- Naturally aspirated and turbocharged gasoline direct injection engines in passenger cars where ILSAC GF-5, API SN with SN Plus, or earlier ILSAC or API "S" performance categories are specified.
- Light truck gasoline engines where ILSAC GF-5, API SN with SN Plus, or earlier ILSAC or API "S" performance categories are specified.
- Passenger car and light truck spark ignition engines burning gasoline/ethanol blends up to and including E85.
- Small displacement turbo-charged engines especially those requiring low speed pre-ignition (LSPI) protection.

Not recommended for use in, diesel engines, motorcycle engines, or gasoline engines that require ACEA classified oils.

Performance Standards

- ILSAC GF-5 (licensed)
- API SN Plus, API Resource Conserving (licensed)
- GM dexos1™ Gen 2 licensed (License Number D10169GJ089)

Meets the requirements of:

- Chrysler MS-6395
- Fiat 9.55535-CR1
- Ford WSS-M2C946-A
- GM 4718M
- GM 6094M



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continued

Typical key properties

HAVOLINE PRO DS FULLY SYNTHETIC ECO 5 SAE 5W-30	RESULTS
SAE Grade	5W-30
Product Code	500286
Base No., D2896, mg KOH/g	8.5
Phosphorus, m %	0.08
Sulfated Ash, m %	0.9
Viscosity, mm ² /s @ 100°C	11.0
mm ² /s @ 40°C	66.3
Zinc, m %	0.089

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, Africa, Middle East and Pakistan.

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 www.caltexoils.com.

For more information, go to www.chevronlubricants.com