



Havoline® Pro DS Fully Synthetic ECO 5 SAE 0W-20

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 engine clean. Special friction modifiers assist in reducing internal engine friction for maximum fuel economy. Improved control of LSPI (Low Speed Pre-Ignition) events 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.

Reduces fuel consumption

Improved visco-metric properties, creating less friction in the engine, which contributes to improved fuel economy. Specifically tailored viscosity characteristics and effective friction modifier minimize internal engine frictional losses.

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.

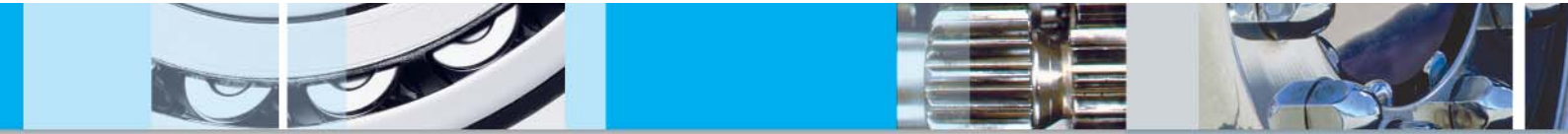
Product features:

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 and GM's Dexos 1 Gen 2 specification.

A Chevron company product

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Applications

- Naturally aspirated and turbocharged gasoline 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.
- For small displacement turbo-charged engines, gasoline direct injection engines especially those requiring low speed pre-ignition (LSPI) protection.

Performance standards

- ILSAC GF-5 (licensed)
- API SN Plus, API Resource Conserving (licensed)
- GM dexos1™ Gen2 licensed (License Number D10226HA089)

Meets the requirements of:

- Chrysler MS-6395
- Ford WSS-M2C947-A
- Fiat 9.55535-CR1



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continued

Typical test data

HAVOLINE PRODS FULLY SYNTHETIC ECO 5	
TEST	RESULTS
SAE Grade	0W-20
Product Code	500285
Base No., D2896, mg KOH/g	8.5
Phosphorus, m %	0.077
Sulfated Ash, m %	0.9
Viscosity, mm ² /s @ 40°C	42.3
mm ² /s @ 100°C	8.2
Viscosity Index	168
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 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