



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

Passenger Car Motor Oil

Product Data Sheet

Product description

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 performance lubricants.

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. Special friction modifiers assist in reducing internal engine friction for maximum fuel economy.

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.

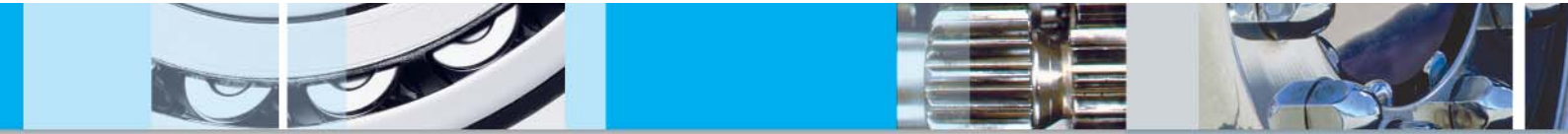
Reduces fuel consumption

Specifically tailored viscosity characteristics and effective friction modifier minimize internal engine frictional losses.

Low oil consumption

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

A Chevron company product



Applications

- Naturally aspirated and turbocharged gasoline engines in passenger cars where ILSAC GF-5, API SN or earlier ILSAC or API "S" performance categories are specified.
- Light truck gasoline engines where ILSAC GF-5, API SN 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

Not recommended for use in gas-fuelled (CNG or LPG) engines, diesel engines, motorcycle engines, or gasoline engines that require ACEA classified oils.

Approvals and performance specifications

Performance specifications

- ILSAC GF-5 (licensed)
- API SN, API Resource Conserving (licensed)
- GM dexos1 licensed (License Number GB1D1017089)



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continued

Typical test data

HAVOLINE PRODS ECO 5 TEST	TEST METHODS	RESULTS
Viscosity Grade		0W-20
Base No.,		
D2896, mg KOH/g		8.7
D4739, mg KOH/g		6.3
Phosphorus, m %		0.08
Sulfated Ash, m %		0.9
Viscosity,		
mm ² /s @ 40°C		42.9
mm ² /s @ 100°C		8.19
Viscosity Index		168
Zinc, m %		0.09

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

Disclaimer Chevron accepts no liability for any loss or damage suffered as a result of using this product for any application other than applications specifically stated in any Product Data Sheet's.

Health, safety, storage and environmental Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS's are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

For more information, go to www.chevronlubricants.com