

HAVOLINE® PRODSTM FULL SYNTHETIC MOTOR OIL

(Formerly: Havoline® Synthetic Motor Oil) SAE 0W-20, 5W-20, 5W-30, 10W-30

PRODUCT DESCRIPTION

A fully synthetic motor oil formulated to provide exceptional wear protection in hot or cold operating temperatures. Provides protection for extended oil drains, heavy loads and for vehicles requiring a synthetic motor oil.

CUSTOMER BENEFITS

Havoline[®] ProDS™ Full Synthetic Motor Oils with Deposit Shield[®] Technology deliver value through:

- Easy cold weather starting due to excellent low temperature properties of the synthetic base oils.
- Minimizes engine deposit and emissions under heavy duty and stop-and-go driving conditions.
- Promotes long engine life due to extremely fast lubrication during starting, and outstanding wear protection during all other engine operating conditions.

FEATURES

Havoline ProDS Full Synthetic
Motor Oils with Deposit Shield
Technology are specially
engineered for the highest level of protection
demanded by high-performance engines. They exhibit
outstanding thermal and shear stability to control
viscosity, and continue to provide top performance and
protection even during extended oil drain intervals.
They provide an extra measure of protection for your
investment in a sport utility vehicle (SUV), high
performance, or luxury cars. Havoline ProDS Full
Synthetic Motor Oils with Deposit Shield Technology
give advanced protection to high output, supercharged
and turbocharged performance vehicles.

Havoline ProDS Full Synthetic Motor Oils with Deposit Shield Technology are formulated using 100% synthetic base stocks for top performance. The exceptional volatility and stability of synthetic base stocks promotes low oil consumption, fast engine starting (especially in cold weather), and extremely fast lubrication of all moving parts. In addition, a special blend of additives protects the engine against harmful deposits and wear.

SAE 0W-20 is licensed under the dexos1[®] specification (License no. GB1E0604089) and exceeds API SN Resource Conserving and ILSAC GF-5



requirements.¹ It is recommended for use in FCA, Ford, GM, Honda, Mazda, Mitsubishi, Nissan and Toyota engines for either SAE 0W-20 or SAE 5W-20 applications. It can increase engine efficiency and improve fuel economy up to 2% compared with other common lubricant grades and provides excellent engine protection in applications recommending SAE 0W-20 or 5W-20 motor oils.²

SAE 5W-20 is licensed under the dexos1[®] specification (License no. GB1E0607089). It is recommended for use in FCA and Ford engines where an SAE 5W-20 viscosity grade is specified. It exceeds the requirements of API SN Resource Conserving and ILSAC GF-5. It provides exceptional performance in extreme cold temperatures.

Product(s) manufactured in the USA and Colombia.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

A **Chevron** company product

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¹ dexos1 is a registered trademark of General Motors LLC.

² Actual savings are dependent upon vehicle/ engine type, outside temperature, driving conditions, and your current engine oil viscosity.

SAE 5W-30 is licensed under the dexos1[®] specification (License no. GB1E0610089) and exceeds the requirements of API SN Resource Conserving and ILSAC GF-5. It is recommended for Acura, FCA, Ford and GM engines calling for this grade. It provides exceptional performance in extreme cold temperatures.

SAE 5W-40 (Refer to PDS# PCMO-95)

SAE Euro 5W-40 (Refer to PDS# PCMO-95)

SAE 10W-30 provides good performance in a wide variety of weather conditions in the most popular viscosity grade. It exceeds the requirements of API SN Resource Conserving and ILSAC GF-5 and is an ideal choice for legacy engines calling for this SAE viscosity grade.

FUNCTIONS

Havoline[®] ProDS™ Full Synthetic Motor Oils with Deposit Shield[®] Technology are formulated with advanced antiwear additives that provide a protective layer on metal surfaces. This combination of synthetic base stocks and advanced antiwear chemistry keeps a lasting film that protects against wear and promotes long engine life.

Havoline ProDS Full Synthetic Motor Oils effectively control sludge that can restrict oil passages and intake screens and cause piston rings to stick. The superior stability of synthetic base oils allows them to resist degradation during high temperature operation and the exceptional level of detergent additives not only helps keep sludge and varnish deposits from forming in the engine, but also works to prevent ring and piston deposits that can cause early oil consumption and power loss.

Havoline ProDS Full Synthetic Motor Oils provide excellent performance in both extreme cold and hot conditions. In cold temperatures, Havoline ProDS Full Synthetic Motor Oils flow easily, allowing for fast starts and quick lubrication. In today's high power density hotter running engines, Havoline ProDS Full Synthetic Motor Oils maintain their viscosity which is critical for engine fuel economy and resist oxidation better than conventional mineral oils.

APPLICATIONS

Havoline ProDS Full Synthetic Motor Oils with Deposit Shield Technology are recommended for four-stroke gasoline engines in passenger cars, sport utility vehicles, and light trucks.

Havoline ProDS Full Synthetic Motor Oils **SAE OW-20**, **5W-20** and **5W-30** are approved by **GM** for use in all GM passenger vehicles that specify dexos1[®] motor oils. GM dexos1[®] supersedes GM6094M and GM4718M.

Havoline ProDS Full Synthetic Motor Oils **SAE 0W-20**, **5W-20**, **5W-30** and **10W-30** meet or exceed:

- · API Service Categories
 - SN and all previous API "S" Categories
 - Resource Conserving for API SN
- ILSAC GF-5
- · manufacturer's specifications
 - FCA US LLC MS-6395 (formerly known as Chrysler Group LLC MS-6395)
 - FIAT 9.55535-CR-1 (SAE 5W-30)
 - _ Ford

WSS-M2C945-A (SAE 5W-20) WSS-M2C946-A (SAE 5W-30) WSS-M2C947-A (SAE 0W-20)

- General Motors
 GM4718M (SAE 5W-30, 10W-30)
 GM6094M
- GM dexos1[®] (SAE 0W-20, 5W-20, 5W-30)
- Honda HTO-06 (SAE 5W-30)

TYPICAL TEST DATA

SAE Grade	0W-20	5W-20	5W-30	10W-30
Product Number	223501	223502	223503	223505
SDS/MSDS Number USA Colombia Density at 15°C, kg/L	31082 — 0.85	31082 — 0.85	31082 — 0.85	31082 33129 0.85
Viscosity, Kinematic cSt at 40°C cSt at 100°C	45.2 8.5	46.1 8.5	58.2 10.4	59.9 10.0
Viscosity, Cold Crank, °C/Poise	-35/59	-30/39.1	-30/51	-25/42
Viscosity Index	168	164	170	154
Pour Point, °C(°F)	-43(-45)	-46(-51)	-46(-51)	-46(-51)
Volatility, NOACK, 250°C, 1 h Evaporation Loss, %	12	11	13	9
Phosphorus, wt %	0.075	0.075	0.075	0.075
Zinc, wt %	0.082	0.082	0.082	0.082

Minor variations in product typical test data are to be expected in normal manufacturing.