



HAVOLINE[®] PRODS[®] FULL SYNTHETIC MOTOR OIL

SAE 0W-16, 0W-20, 5W-20, 5W-30, 10W-30

PRODUCT DESCRIPTION

Havoline[®] ProDS[®] Full Synthetic Motor Oil provides outstanding protection for grueling stop-and-go driving, extended oil drain intervals, heavy loads and for vehicles with turbo chargers and those that require a synthetic motor oil.

FEATURES

Havoline ProDS Full Synthetic Motor Oil with Deposit Shield[®] technology is specially engineered for the highest level of protection demanded by high-performance engines. It exhibits outstanding protection against heat, pressure, corrosion, acid, abrasion - all the things that can prematurely age today's smaller, higher output engines.



Havoline ProDS Full Synthetic Motor Oil with Deposit Shield technology meets or exceeds the requirements of API SN Plus Resource Conserving and ILSAC GF-5. It provides:

- Outstanding protection against wear¹
- Outstanding protection against sludge and deposits to keep your engine clean²
- Outstanding protection against piston varnish in the industry's toughest high-temperature stress test³
- Improved fuel economy⁴
- Improved thermal stability for smaller and hotter engines

- 1 Demonstrated in the Sequence IVA Wear Test for SAE 0W-16, 0W-20, 5W-20, 10W-30, and in the Peugeot TU3M Pad Wear Performance parameter for 5W-30.
- 2 Demonstrated in the Sequence VG Test for SAE 0W-16, 0W-20, 5W-20, 10W-30, and in the Sequence VG Rocker Cover Sludge Performance for 5W-30.
- 3 Demonstrated in the GM GMOD oxidation test for SAE 0W-20 and 5W-30.

- Excellent degradation control for long automaker-recommended oil change intervals
- Extremely fast lubrication during start up
- Protects Gasoline Direct Injection (GDI) engines from low-speed pre-ignition (LSPI)

SAE 0W-16 is an ultra-low viscosity engine oil specially formulated for Toyota and Honda gasoline and hybrid engines that are designed to operate on an SAE 0W-16 viscosity motor oil. Designed for modern start/stop engines to provide outstanding fuel economy, exceptionally fast lubrication at cold starts, and excellent deposit control and wear protection. It meets the requirements of API SN Plus/Resource Conserving performance categories.

SAE 0W-20 is licensed under the dexos1[™] Gen 2



specification⁵ (License no. D10216GL089). 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.⁶

SAE 5W-20 is recommended for use in Acura, Chrysler, FCA, Ford, Honda and Mazda engines where an SAE 5W-20 viscosity grade is specified. It provides

- 4 Demonstrated in industry standard Sequence VID test for SAE 0W-20 and 5W-30, and in API SN Plus Resource Conserving and ILSAC GF-5 for SAE 5W-20 and 10W-30.
- 5 dexos1 is a registered trademark of General Motors LLC.
- 6 Actual savings are dependent upon vehicle/engine type, outside temperature, driving conditions, and your current engine oil viscosity.

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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exceptional performance in extreme cold temperatures.

SAE 5W-30 is licensed under the dexos1 Gen 2 specification (License no. D10168GJ089). It is recommended for Acura, Chrysler, FCA, Ford, GM, Honda, Mazda, Nissan and Toyota engines calling for this grade. It provides exceptional performance in extreme cold temperatures.



SAE 10W-30 provides good performance in a wide variety of weather conditions in the most popular viscosity grade. It is an ideal choice for legacy engines calling for this SAE viscosity grade.

APPLICATIONS

Havoline® ProDS® Full Synthetic Motor Oil with Deposit Shield® technology is engineered for use in:

- Advanced engines with turbochargers, gasoline direct injection, and high power density
- Extreme hot or cold climate conditions
- Most domestic and import passenger cars, pickup trucks, SUVs and working vans
- New and older vehicles

APPROVALS AND SPECIFICATIONS

Meets or exceeds the following OEM specifications and industry standards:

SAE Grade	0W-16	0W-20	5W-20	5W-30	10W-30
Acura/Honda HTO-06				X	
API SN/SN Plus/Resource Conserving	X	X	X	X	X
ILSAC GF-5		X	X	X	X
Chrysler MS-6395		X	X	X	X
Fiat 9.55535-CR-1		X	X	X	X
Ford WSS-M2C945-A			X		
Ford WSS-M2C946-A				X	
Ford WSS-M2C947-A		X			
GM dexos1 Generation 2 ^a					
GM4718M				X	X
GM6094M		X	X	X	X

a 0W-20 dexos1™ Generation 2 License No. D10216GL089. 5W-30 dexos1 Generation 2 License No. D10168GJ089.

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TYPICAL TEST DATA

SAE Grade	0W-16	0W-20	5W-20	5W-30	10W-30
<i>Product Number</i>	223517	223508	223509	223510	223511
<i>SDS/MSDS Number</i>					
<i>USA</i>	48323	47956	47959	47962	47965
<i>Canada</i>	48325	47957	47960	47963	47966
<i>Mexico</i>	48326	47958	47961	47964	47967
<i>Colombia</i>		44191	44191	44191	44191
Density at 15°C, kg/L	0.85	0.85	0.85	0.85	0.85
Viscosity, Kinematic					
cSt at 40°C	42.0	42.3	46.6	62.1	62.3
cSt at 100°C	7.9	8.2	8.5	10.7	10.2
Viscosity, Cold Crank, °C/Poise	-35/5600	-35/4900	-30/3700	-30/3900	-25/3680
Viscosity Index	161	172	175	165	152
Pour Point, °C(°F)	-36(-33)	-40(-40)	-41(-42)	-45(-49)	-39(-38)
Volatility, NOACK, 250°C, 1 h Evaporation Loss, %	12.0	12.1	11	12.3	10
Phosphorus, wt %	0.076	0.076	0.076	0.076	0.076
Zinc, wt %	0.089	0.089	0.089	0.089	0.089

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

To find the right Chevron Havoline product for your vehicles, please consult www.Havoline.com to find the right motor oil using our Product Selector tool.

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