



HAVOLINE[®] PRO-DS[®] HIGH MILEAGE FULL SYNTHETIC MOTOR OIL SAE 0W-20, 5W-20, 5W-30

PRODUCT DESCRIPTION

Chevron Havoline[®] PRO-DS[®] High Mileage Full Synthetic Motor Oil is a premium full synthetic oil with Deposit Shield[®] Technology specially designed for high-mileage vehicles or vehicles of any age. It is formulated with seal conditioning agents and a proprietary cleaning booster to prevent oil consumption and provide ultimate protection that helps extend the life of the engine. It exceeds the latest and most stringent industry and automaker standards.

FEATURES/BENEFITS

Chevron Havoline PRO-DS Full Synthetic Motor Oils use the latest full synthetic base oils and special cleaning additives, including seal conditioners, antioxidants and friction modifiers to:



- Provide unsurpassed protection against sludge, varnish and deposit buildup to keep engines running cleaner, stronger, and for longer.
- Help reduce leak and prevent oil consumption with special conditioners for seals and gaskets.
- Reduce evaporative oil loss at high temperature compared to conventional and part synthetic motor oils.
- Help maximize the power of your engine while maintaining fuel efficiency and cleanliness.
- Deliver excellent protection against aeration to keep oil passages flowing smoothly to protect vital components.
- Deliver superior anti-wear protection for bearings to help preserve engines and turbocharger durability.
- Provide unsurpassed mitigation against Low Speed Pre-Ignition (LSPI) in turbocharged direct injection engines to protect critical engine parts.

- Deliver excellent fuel economy retention which helps save on fuel costs.
- Provide outstanding cold temperature performance over part synthetic and conventional motor oils.

PERFORMANCE CLAIMS

- Unparalleled turbocharger cleanliness protection¹.
- Reduces piston deposits.
- Unsurpassed sludge control up to 25% better than GF-6 limits².
- Preserves fuel economy up to 35% better than the latest industry standard³.
- Meets or exceeds GM's dexos1 Gen2 standards (0W-20 and 5W-30).
- Unsurpassed control in fighting temperature-related oil breakdown and oil thickening up to 76% better than GF-6 limits⁴.
- Reduces friction-related wear of critical engine parts up to 25% better than industry GF-6 limits⁵.
- Superior corrosive wear protection of key engine parts up to 64% better than GF-6 limits⁶.

1. Based on GMTC turbocharge test using SAE 5W-30
2. Based on Sequence VH sludge and varnish test using SAE 0W-20
3. Based on Sequence VIE fuel economy test using SAE 10W-30
4. Based on Sequence IIIH deposit test using SAE 0W-20
5. Based on Sequence IVB valvetrain wear test using SAE 0W-30
6. Based on Sequence VIII corrosion test using SAE 5W-30

Product(s) manufactured in the USA.

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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APPLICATIONS, APPROVALS AND SPECIFICATIONS

Havoline® PRO-DS® High Mileage Full Synthetic Motor Oils with Deposit Shield® Technology are recommended for advanced, high power density and performance engines with turbochargers, and gasoline direct injection. For high mileage and newer cars, SUV, and light truck engines where ILSAC GF-6 and/or API SP or previous specification is specified. Recommended for vehicles operating in extreme hot and cold or stop-and-go driving conditions. For use in most domestic and import passenger cars, SUVs, pickup trucks and vans.

Meets or exceeds the following industry and OEM standards:

SAE Grade	0W-20	5W-20	5W-30
API SP/SN Plus/Resource Conserving	X	X	X
ILSAC GF-6A	X	X	X
Acura/Honda HTO-06			X
Chrysler MS-6395	X	X	X
Fiat 9.55535-CR-1	X	X	X
Ford WSS-M2C960-A1 ¹		X	
Ford WSS-M2C961-A1 ²			X
Ford WSS-M2C962-A1 ³	X		
GM dexos1 Generation 2	License No. D135BIBI089		License No. D135APBI089
GM 6094M		X	X
GM 4718M			X

- 1 Compatible with Ford WSS-M2C945-A1/B1
- 2 Compatible with Ford WSS-M2C946-A1/B1
- 3 Compatible with Ford WSS-M2C947-A1/B1

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TYPICAL TEST DATA

SAE Grade	Test Method	0W-20	5W-20	5W-30
<i>Product Number</i>		223600	223601	223602
<i>SDS/MSDS Number</i>		52104	52110	52107
Density at 15°C, kg/L	ASTM D4052	0.8455	0.8488	0.8491
Viscosity, Kinematic mm ² /s at 40°C mm ² /s at 100°C	ASTM D445 ASTM D445	42.0 8.0	47.6 8.6	61.0 10.8
Viscosity, Cold Crank (CCS) (cP), CCS @ °C	ASTM D5293	-35/5880	-30/4730	-30/4750
Viscosity Index	ASTM D2270	167	161	171
Pour Point, °C(°F)	ASTM D5950	-44(-47)	-41(-42)	-41(-42)
Flash Point, °C(°F)	ASTM D92	238(460)	238(460)	226(439)
Phosphorus, mass%	ASTM D4951	0.077	0.077	0.077
Ash, sulphated, mass%	ASTM D874	0.9	0.9	0.9
Zinc, mass%	ASTM D4951	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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