



# HAVOLINE<sup>®</sup> PRO-DS<sup>®</sup> FULL SYNTHETIC MOTOR OIL

**SAE 0W-16, 0W-20, 0W-40, 5W-20, 5W-30, 5W-40, 10W-30**

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## PRODUCT DESCRIPTION

Chevron Havoline<sup>®</sup> PRO-DS<sup>®</sup> Full Synthetic Motor Oil is a premium full synthetic oil designed with a proprietary cleaning booster to provide ultimate protection that prolongs the peak performance and efficiency of your engine, especially under harsh stop-and-go driving conditions, extreme temperatures and heavy loads. It provides outstanding protection for vehicles with direct-injection and turbochargers and those that require a full synthetic motor oil. It exceeds the latest and most demanding 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 antioxidants and friction modifiers, to provide unmatched protection and performance. They provide outstanding protection against harmful engine deposits, are formulated with low friction components for maximum fuel economy, and provide:

- **Engine life extension** - Provides unsurpassed protection against sludge, varnish and deposit buildup to keep modern engines running cleaner, stronger, and for longer.
- **Excellent wear protection** - Delivers excellent anti-wear protection for bearings to help preserve engines and turbocharger durability. Up to 50% lower friction-induced wear than industry standards.
- **Protection for critical engine parts** - Provides unsurpassed protection for critical engine parts against Low Speed Pre-Ignition (LSPI) in turbocharged direct injection engines.
- **Excellent fuel economy retention** - Deliver excellent fuel economy retention to help save on fuel costs.
- **Corrosion protection** - Excellent corrosive wear protection helps prevent corrosion of critical engine parts
- **Enhanced thermal stability** - 76% more resistance to thermal breakdown, helping to resist oil breakdown and keep oil fresher for longer
- **Compatibility with hybrids** - Havoline PRO-DS is also suitable for use in Hybrid vehicles. Engineered with hybrid vehicles in mind, Havoline PRO-DS is formulated to withstand extreme levels of water and fuel contamination and fortified with corrosion and rust preventing chemistries that help preserve vital engine surfaces more than 25% better than industry requirements. It also provides 20% stronger sludge protection than industry standards and provides powerful wear protection in cold, hot and start/stop conditions.
- **Maximum engine power** - Help maximize the power of your engine while maintaining fuel efficiency and cleanliness.
- **Oil flow to protect engine components** - Provide excellent protection against aeration to keep oil passages flowing smoothly to protect vital components
- **Peace of mind** - Meets or exceeds the latest rigorous industry and automaker standards, including ILSAC GF-7 / API SQ and GM's dexos1<sup>™</sup> Gen 3 specification

Product(s) manufactured in the USA, Colombia and El Salvador.

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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PCMO-90

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## PERFORMANCE CLAIMS

- **Protection up to 10,000 miles\***
- **Unsurpassed cleanliness** - Sludge control up to 25% better than GF-7 limits<sup>1</sup>
- **Wear protection** - Reduces friction-related wear of critical engine parts up to 50% better than industry GF-7 limits<sup>2</sup>
- **Fights thermal breakdown** - Unsurpassed control in fighting temperature-related oil breakdown and oil thickening up to 76% better than GF-7 limits<sup>3</sup>, helping to keep oil fresher longer
- **Fuel economy** - Formulated with low friction components for maximum fuel economy that meets or exceeds GF-7 requirements
- **Corrosion protection** - Excellent corrosive wear protection helps prevent corrosion of critical engine parts, up to 64% better than GF-7 limits<sup>4</sup>.
- **dexos certification** - Meets or exceeds GM's dexos1™ Gen3 specification (SAE 0W-20 and 5W-30).
- **Turbo approved** - Excellent turbocharger efficiency and protection helps extend the life of the turbocharger<sup>5</sup>
- **Direct injection engine protection** - Unsurpassed prevention of harmful combustion events and helps provide protection for critical engine parts against Low Speed Pre-Ignition (LSPI) in turbocharged direct injection engines.
- **Piston deposit reduction that exceeds GF-7 requirements**

\*Guaranteed protection for 10,000 miles, or one year, whichever comes first. If your vehicle is under warranty, maintain oil change intervals recommended in your owner's manual. Follow your vehicle's oil warning lights. Severe service conditions are excluded.

1. Based on Sequence VH sludge and varnish test using SAE 0W-20
2. Based on Sequence IVB valve train wear test using SAE 0W-30
3. Based on Sequence IIH deposit test using SAE 0W-20
4. Based on Sequence VIII corrosion test using SAE 5W-30
5. Based on GMTC turbocharge test using SAE 5W-30

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## APPLICATIONS, APPROVALS AND SPECIFICATIONS

Havoline® PRO-DS® Full Synthetic Motor Oils are recommended for advanced, high power density and performance engines with turbochargers, and gasoline direct injection. Recommended for vehicles operating in extreme hot and cold or stop-and-go driving conditions. For use in most domestic and import conventional or hybrid passenger cars, SUVs, pickup trucks and vans, including new and older vehicles.

Meets or exceeds the following industry and OEM standards:

SAE Grade	0W-16	0W-20	0W-40
API SQ/Resource Conserving	Approved	Approved	Meets API SN
ACEA A3/B3 <sup>a</sup> , A3/B4			Meets
Chrysler MS-6395		Meets	
Fiat 9.55535-CR-1		Meets	
Ford WSS-M2C937-A			Meets
Ford WSS-M2C962-A1 <sup>3</sup>		Meets	
GM dexos1 Generation 3		License # D335BACH089	
ILSAC GF-7A		Approved	
ILSAC GF-7B	Approved		
RN 0700/0710			Meets
VW 502 00			Meets
VW 505 00			Meets

Meets or exceeds the following industry and OEM standards:

SAE Grade	5W-20	5W-30	5W-40	10W-30
API CF <sup>a</sup>			Recommended	
API SQ/Resource Conserving	Approved	Approved	Meets API SN	Approved
ACEA A3/B3 <sup>a</sup> , A3/B4			Meets	
Acura/Honda HTO-06		Meets		
BMW Longlife-01 (6th Edition)			Meets	
Chrysler MS-6395	Meets	Meets		Meets
FCA US LLC (formerly Chrysler Group LLC) MS-12991			Meets	
Fiat 9.55535-CR-1	Meets	Meets		Meets
Daimler-MB Approval 229.30			Approved	
Daimler-MB Approval 229.50			Approved	
Ford WSS-M2C960-A1 <sup>1</sup>	Meets			
Ford WSS-M2C961-A1 <sup>2</sup>		Meets		

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SAE Grade	5W-20	5W-30	5W-40	10W-30
GM dexos1 Generation 3		License # D335AACH089		
GM 6094M	Meets	Meets		Meets
GM 4718M		Meets		Meets
ILSAC GF-7A	Approved	Approved		Approved
Porsche A40			Meets	
VW 501.01 <sup>a</sup>			Recommended	
VW 502 00			Approved	
VW 505 00			Approved	

a Obsolete specification.

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-16	0W-20	0W-40
Product Number		223517	223508	223513
SDS/MSDS Number				
USA		48323	47956	59865
Canada		48325	47957	59867
Mexico		48326	47958	59866
Colombia			49202	
El Salvador			52780	
Density at 15°C, kg/L	ASTM D4052	0.8464	0.8443	0.844
Viscosity, Kinematic				
mm <sup>2</sup> /s at 40°C	ASTM D445	37.3	42.0	74.9
mm <sup>2</sup> /s at 100°C	ASTM D445	7.1	8.0	13.3
Viscosity, Cold Crank (CCS) (cP), CCS @ °C				
	ASTM D5293	-35/5100	-35/4600	5900
Viscosity Index	ASTM D2270	161	167	182
Flash Point, °C(°F)	ASTM D92	230(446)	234(453)	232(450)
Phosphorus, mass%	ASTM D4951	0.077	0.077	0.096
Ash, sulphated, mass%	ASTM D874	0.9	0.9	1.2
Zinc, mass%	ASTM D4951	0.089	0.089	0.105

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

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## TYPICAL TEST DATA

SAE Grade	Test Method	5W-20	5W-30	5W-40	10W-30
Product Number		223509	223510	223726	223511
SDS/MSDS Number					
USA		47959	47962	36693	47965
Canada		47960	47963	36710	47966
Mexico		47961	47964	36711	47967
Colombia		49202	49202		49202
El Salvador		52780	52780		52780
Density at 15°C, kg/L	ASTM D4052	0.8464	0.8479	0.853	0.8576
Viscosity, Kinematic mm <sup>2</sup> /s at 40°C	ASTM D445	45.0	62.0	83.6	63.8
mm <sup>2</sup> /s at 100°C	ASTM D445	8.2	10.8	13.4	10.0
Viscosity, Cold Crank (CCS) (cP), CCS @ °C	ASTM D5293	-30/3800	-30/4200	-30/5600	-25/4000
Viscosity Index	ASTM D2270	160	169	163	150
Flash Point, °C(°F)	ASTM D92	227(441)	238(460)	224(435)	252(486)
Phosphorus, mass%	ASTM D4951	0.077	0.077	0.096	0.077
Ash, sulphated, mass%	ASTM D874	0.9	0.9	1.2	0.9
Zinc, mass%	ASTM D4951	0.089	0.089	0.105	0.089

To find the right Chevron Havoline product for your vehicles, please consult [www.Havoline.com](http://www.Havoline.com) to find the right motor oil using our Product Selector tool.

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