



# HAVOLINE<sup>®</sup> LIFELONG FULL SYNTHETIC MOTOR OIL

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

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### PRODUCT DESCRIPTION

Chevron Havoline<sup>®</sup> LIFELONG Full Synthetic Motor Oil is a high mileage, full synthetic engine oil specially designed for high mileage vehicles or vehicles of any mileage. It offers the same protection as Havoline PRO-DS Full Synthetic motor oil, plus the added benefits of a high mileage motor oil.

It is specially formulated with seal conditioning agents to help fight the effects of aging and a proprietary cleaning booster to help prevent oil consumption, deliver enhanced wear protection that exceeds GF-7 industry test limits, and help increase the life of your engine.

### FEATURES/BENEFITS

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

- **Special protection for high mileage vehicles** - Better protection for vehicles with more than 75,000 miles as it helps to reduce leak and prevent oil consumption with special conditioners for seals and gaskets
- **Broad coverage** - Great for high mileage vehicles, low mileage vehicles, or vehicles with any mileage
- **Engine life extension** - Provides unsurpassed protection against sludge, varnish and deposit buildup to keep 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** - Helps provide unsurpassed protection for critical engine parts against Low Speed Pre-Ignition (LSPI) in turbocharged direct injection engines
- **Excellent fuel economy retention** - Delivers excellent fuel economy retention to help save on fuel costs
- **Corrosion protection** - Excellent corrosive wear protection helps prevent corrosion of critical engine parts
- **Compatibility with hybrids** - Havoline LIFELONG is also suitable for use in Hybrid vehicles. Engineered with hybrid vehicles in mind, Havoline LIFELONG 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 (0W-16, 0W-20)
- **Maximum engine power** - Helps maximize the power of your engine while maintaining fuel efficiency and cleanliness
- **Oil flow to protect engine components** - Delivers 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.

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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## 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<sup>4</sup>
- **Corrosion protection** - Excellent corrosive wear protection helps prevent corrosion of critical engine parts, up to 64% better than GF-7 limits<sup>5</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>6</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 VIE fuel economy test using SAE 10W-30
5. Based on Sequence VIII corrosion test using SAE 5W-30
6. Based on GMTC turbocharge test using SAE 5W-30

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## APPLICATIONS, APPROVALS AND SPECIFICATIONS

Havoline® LIFELONG Full Synthetic Motor Oils 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-7 and/or API SQ 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 conventional or hybrid passenger cars, SUVs, pickup trucks and vans.

Meets or exceeds the following industry and OEM standards:

SAE Grade	0W-20	5W-20	5W-30	10W-30
API SQ/Resource Conserving	X	X	X	X
ILSAC GF-7A	X	X	X	X
Acura/Honda HTO-06			X	
Chrysler MS-6395	X	X	X	X
Fiat 9.55535-CR-1	X	X	X	X
Ford WSS-M2C960-A1 <sup>1</sup>		X		
Ford WSS-M2C961-A1 <sup>2</sup>			X	
Ford WSS-M2C962-A1 <sup>3</sup>	X			
GM dexos1 Generation 3	License # D335BNDI089		License # D335AMD1089	
GM 6094M		X	X	X
GM 4718M			X	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	10W-30
Product Number		220401	220402	220403	220404
SDS/MSDS Number		53899	53899	53899	53899
U.S.		53900	53900	53900	53900
Canada		53901	53901	53901	53901
Mexico					
Density at 15°C, kg/L	ASTM D4052	0.8455	0.8488	0.8491	0.8546
Viscosity, Kinematic					
mm <sup>2</sup> /s at 40°C	ASTM D445	48.0	47.6	63.0	71.7
mm <sup>2</sup> /s at 100°C	ASTM D445	9.0	8.5	11.0	11.4
Viscosity, Cold Crank (CCS) (cP), CCS @ °C	ASTM D5293	-35/5880	-30/4700	-30/4200	-25/5200
Viscosity Index	ASTM D2270	170	161	169	153
Flash Point, °C(°F)	ASTM D92	238(460)	238(460)	226(439)	260(500)
Phosphorus, mass%	ASTM D4951	0.077	0.077	0.077	0.077
Ash, sulphated, mass%	ASTM D874	0.9	0.9	0.9	0.9
Zinc, mass%	ASTM D4951	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](http://www.Havoline.com) to find the right motor oil using our Product Selector tool.

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