



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

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

### PRODUCT DESCRIPTION

Chevron Havoline<sup>®</sup> LIFELONG Full Synthetic Motor Oil with Deposit Shield<sup>®</sup> Technology is a premium full synthetic engine oil



designated for vehicles or engines of any mileage. It is formulated with seal conditioning agents and a proprietary cleaning booster to help prevent oil consumption and deliver wear protection that exceeds GF-6 industry test limits. Provides unsurpassed protection against sludge, varnish and deposit buildup to keep engines running cleaner and stronger for longer.

### 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:

- Provide unsurpassed protection against sludge, varnish and deposit buildup to keep engines running cleaner, stronger, and for longer.
- Help maximize the power of your engine while maintaining fuel efficiency and cleanliness.
- 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.
- 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.

- Deliver excellent protection against aeration to keep oil passages flowing smoothly to protect vital components.
- 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 protection<sup>1</sup>.
- Reduces piston deposits.
- Unsurpassed sludge control up to 25% better than GF-6 limits<sup>2</sup>.
- Preserves fuel economy up to 35% better than the latest industry standard<sup>3</sup>.
- Meets or exceeds GM's dexos1<sup>™</sup> Gen 3 specification (SAE 0W-20 and 5W-30)
- Unsurpassed control in fighting temperature-related oil breakdown and oil thickening up to 76% better than GF-6 limits<sup>4</sup>.
- Reduces friction-related wear of critical engine parts up to 25% better than industry GF-6 limits<sup>5</sup>.
- Superior corrosive wear protection of key engine parts up to 64% better than GF-6 limits<sup>6</sup>.

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 IIH 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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PCMO-92 (35EX)

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## APPLICATIONS, APPROVALS AND SPECIFICATIONS

Havoline® LIFELONG 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 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 SP/SN Plus/Resource Conserving	X	X	X	X
ILSAC GF-6A	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	42.0	47.6	61.0	71.7
mm <sup>2</sup> /s at 100°C	ASTM D445	8.0	8.6	10.8	11.4
Viscosity, Cold Crank (CCS) (cP), CCS @ °C	ASTM D5293	-35/5880	-30/4700	-30/4750	-25/5200
Viscosity Index	ASTM D2270	167	161	171	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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