



# HAVOLINE<sup>®</sup> HIGH MILEAGE SYNBLEND MOTOR OIL

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

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### PRODUCT DESCRIPTION

Havoline<sup>®</sup> High Mileage SynBlend Motor Oil is a synthetic blend motor oil specially designed for high-mileage vehicles or vehicles of any age. It is specially formulated with seal conditioning agents to help fight the effects of aging and extra cleaning and anti-wear additives to help extend the life of engines, particularly in severe driving conditions.

### FEATURES/BENEFITS

Chevron Havoline High Mileage SynBlend Motor Oil contains additives that can help maintain the condition of seals and gaskets to control oil consumption. It is especially suited for the unique needs of engines that have accumulated 75,000 miles or more and is designed to deliver:

- **Special protection for high mileage vehicles** - Protection for vehicles with more than 75,000 miles to help reduce leak and prevent oil consumption with special conditioners for seals and gaskets
- **Cleaner engines** - Helps reduce sludge and deposit buildup to keep engines running longer
- **Wear protection** - Delivers anti-wear protection for bearings to help preserve engines and turbocharger durability - up to 25% lower friction induced wear than industry standards
- **Protection for critical engine parts** - Helps provide excellent protection for critical engine parts against Low Speed Pre-Ignition (LSPI) in turbocharged direct injection engines
- **Better fuel economy retention** - Preserves fuel economy better than conventional motor oils to help save on fuel costs
- **Corrosion protection** - Corrosive wear protection helps prevent corrosion of critical engine parts

- **Thermal stability** - fights temperature related oil breakdown

### PERFORMANCE CLAIMS

- **Protection up to 5,000 miles\***
- **Cleanliness** - Fights sludge and deposit buildup beyond GF-7 limits<sup>1</sup>
- **Fuel economy** - Fuel economy retention that meets or exceeds GF-7 requirements<sup>2</sup>
- **Wear protection** - Reduces friction-related wear of critical engine parts up to 25% better than industry GF-7 limits<sup>3</sup>
- **Corrosion protection** - Corrosive wear protection helps prevent corrosion of critical engine parts beyond GF-7 limits<sup>4</sup>

\*Guaranteed protection for 5,000 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 VIE fuel economy test using SAE 10W-30
3. Based on Sequence IVB valvetrain wear test using SAE 0W-30
4. 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, SPECIFICATIONS & APPROVALS

Both high mileage and newer cars, SUV, and light truck engines, including high-revving and/or turbocharged engines where ILSAC GF-7 and/or API SQ or previous specification is specified (specification depends on specific oil grade). Also recommended for use in mobile and stationary equipment where an API SQ or previous "S" category oil, and the appropriate viscosity grade is stipulated.

Meets or exceeds the following industry and OEM standards:

Specifications	0W-20	5W-20	5W-30	10W-30
API SQ/Resource Conserving	X	X	X	X
ILSAC GF-7A	X	X	X	X
Chrysler MS-6395	X	X	X	X
Fiat 9.55535-CR-1	X	X	X	X
Ford WSS-M2C930-A		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 6094M		X	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

### TYPICAL TEST DATA

SAE Grade	Test Method	0W-20	5W-20	5W-30	10W-30
<i>Product Number</i>		212045	224110	224111	224112
<i>SDS Number</i>		52146	52628	52649	52655
Density at 15°C, kg/l	ASTM D4052	0.8509	0.8613	0.8601	0.8687
Viscosity, Kinematic mm <sup>2</sup> /s at 40°C	ASTM D445	43.3	48.8	57.7	65.7
mm <sup>2</sup> /s at 100°C	ASTM D445	8.2	8.4	9.8	10.1
Viscosity, Cold Crank (CCS) (cP), CCS @ °C	ASTM D5293	-35/5500	-30/5400	-30/5100	-25/5000
Viscosity Index	ASTM D2270	168	146	157	140
Flash Point, °C(°F)	ASTM D92	232(450)	232(450)	228(442)	238(460)
Sulfated Ash, mass %	ASTM D874	0.8	0.8	0.8	0.8
Phosphorus, mass %	ASTM D4951	0.066	0.066	0.066	0.066
Zinc, mass %	ASTM D4951	0.076	0.076	0.076	0.076

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

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