



HAVOLINE[®] SYNTHETIC BLEND MOTOR OIL

SAE 5W-20, 5W-30

PRODUCT DESCRIPTION

Chevron Havoline[®] Synthetic Blend Motor Oil is a high-quality synthetic blend oil with Deposit Shield[®] Technology designed to provide enhanced protection over conventional oils. Specially formulated with advanced additives technology for continuous wear protection.



FEATURES/BENEFITS

Chevron Havoline Synthetic Blend Motor Oil is formulated with a combination of advanced synthetic and conventional base oils plus boosters and additives to:

- Flow better at low temperatures than conventional motor oils for extra protection during cold starts.
- Provide outstanding protection against harmful engine deposits, while providing excellent oxidation protection and volatility control to keep your car running cleaner longer.
- Provide mitigation against Low Speed Pre-Ignition (LSPI) in turbocharged direct injection engines to protect critical engine parts.
- Deliver outstanding anti-wear protection for camshafts, bearings and other vital engine parts.

PERFORMANCE CLAIMS

- Better cold start and cold temperature protection compared to conventional motor oils.
- Helps keep engines clean and running longer with piston deposit control up to 14% and sludge control up to 8% better than GF-6 limit¹.
- Special booster dramatically reduces engine wear and oxidation, up to 25% less friction-related wear compared to industry standard².
- Maintains the oil's original viscosity longer. Resists thermal breakdown
- Excellent three-way catalyst protection.

1. Based on Sequence IIIH deposit test using SAE 5W-30 & Sequence VH sludge and varnish test using SAE 0W-20
2. Based on Sequence IVB valvetrain wear test using SAE 0W-30

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-80

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APPLICATIONS, SPECIFICATIONS & APPROVALS

Recommended for passenger cars, light trucks, SUVs, powerboats, motorcycles and other mobile and stationary equipment using four-stroke gasoline engines that specify API SP or previous specification as well as GF-6 or previous specification.

Meets or exceeds the following industry and OEM standards:

SAE Grade	5W-20	5W-30
API SP/SN Plus/ Resource Conserving	X	X
ILSAC GF-6A	X	X
Chrysler MS-6395	X	X
Fiat 9.55535-CR-1		X
Ford WSS-M2C960-A1 ¹	X	
Ford WSS-M2C961-A1 ²		X
GM 6094M	X	X

1 Compatible with Ford WSS-M2C945-A1/B1

2 Compatible with Ford WSS-M2C946-A1/B1

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TYPICAL TEST DATA

SAE Grade	Test Method	5W-20	5W-30
<i>Product Number</i>		212048	212049
<i>SDS Number</i>			
<i>U.S.</i>		31086	31086
<i>Canada</i>		31087	31087
<i>Mexico</i>		33132	33132
<i>Colombia</i>		33134	33134
<i>El Salvador</i>		33133	33133
Density @15°C, kg/l	ASTM D4052	0.8627	0.8612
Viscosity, Kinematic mm ² /s at 40°C	ASTM D445	48.1	62.3
mm ² /s at 100°C	ASTM D445	8.2	10.4
Viscosity, Cold Crank (CCS) (cP), CCS @ °C	ASTM D5293	-35/6300	-30/6300
Viscosity Index	ASTM D2270	145	157
Flash Point, °C(°F)	ASTM D92	234(453)	230(446)
Sulfated Ash, wt %	ASTM D874	0.8	0.8
Phosphorus, wt %	ASTM D4951	0.077	0.077
Zinc, wt %	ASTM D4951	0.087	0.087

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

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