



HAVOLINE[®] SYNTHETIC TECHNOLOGY MOTOR OIL

SAE 0W-20, 5W-30

PRODUCT DESCRIPTION

Chevron Havoline[®] Synthetic Technology Motor Oil is a premium synthetic technology oil with Deposit Shield[®] Technology that contains more cleaning and anti-wear additives to provide advanced protection for modern engines to run efficiently.

FEATURES/BENEFITS

Chevron Havoline Synthetic Technology Motor Oil is designed to:

- Provide excellent protection against sludge and deposit buildup to keep your engine cleaner and running longer.
- Preserve fuel economy better than conventional motor oils which helps save on fuel costs.
- Deliver outstanding anti-wear and anti-corrosion protection for camshafts, bearings and other vital engine parts.
- Provide superior mitigation against Low Speed Pre-Ignition (LSPI) in turbocharged direct injection engines to protect critical engine parts.
- Deliver better cold-start performance down to -35°C (0W-20) and -30°C (5W-30).

PERFORMANCE CLAIMS

- Unsurpassed turbocharger cleanliness protection.
- Unsurpassed sludge control up to 25% better than GF-6 limits¹.
- Reduces piston deposits.
- Retains fuel economy up to 38% better than GM's tough dexos1 Gen2 standards².
- Maintains the oil's original viscosity longer and fights temperature-related oil breakdown.
- Dramatically reduces friction-related wear of critical engine parts up to 25% better than industry GF-6 limits³.
- Unsurpassed corrosive wear protection of key engine parts up to 64% better than GF-6 limits⁴.
- Meets or exceeds requirements of car and light truck manufacturers relying on API SP and/or GF-6 motor oils.

1. Based on Sequence VH sludge and varnish test using SAE 0W-20

2. Based on GMVFE fuel economy test using SAE 0W-20

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 and Colombia.

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

All modern car, SUV, and light truck engines, including newer turbocharged engines where ILSAC GF-6 and/or API SP or previous specification is specified. Also recommended for use in mobile and stationary equipment where an API SP or previous "S" category oil, and the appropriate viscosity grade is stipulated.

Meets or exceeds the following industry and OEM standards:

SAE Grade	0W-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-M2C961-A1 ¹		X
Ford WSS-M2C962-A1 ²	X	
GM dexos1 Generation 2		License # D135A0BH089
GM 6094M		X

1 Compatible with Ford WSS-M2C946-A1/B1

2 Compatible with Ford WSS-M2C947-A1/B1

TYPICAL TEST DATA

SAE Grade	Test Method	0W-20	5W-30
<i>Product Number</i>		212043	212044
<i>SDS Number</i>		52555	52558
Density at 15°C, kg/l	ASTM D4052	0.8437	0.8585
Viscosity, Kinematic mm ² /s at 40°C mm ² /s at 100°C	ASTM D445 ASTM D445	42.2 8.0	63.5 10.6
Viscosity, Cold Crank (CCS) (cP), CCS @ °C	ASTM D5293	-35/5700	-30/5900
Viscosity Index	ASTM D2270	166	158
Flash Point, °C(°F)	ASTM D92	236(457)	228(442)
Pour Point, °C(°F)	ASTM D5950	-43(-45)	-40(-40)
Sulfated Ash, wt %	ASTM D874	0.9	0.9
Phosphorus, wt %	ASTM D4951	0.077	0.077
Zinc, wt %	ASTM D4951	0.089	0.089

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

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