



# HAVOLINE<sup>®</sup> MOTOR OIL

## SAE 10W-30, 10W-40, 20W-50, 30

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### PRODUCT DESCRIPTION

Chevron Havoline<sup>®</sup> Motor Oil is a premium conventional motor oil with Deposit Shield<sup>®</sup> Technology designed to protect against deposits, sludge and contamination in older engines. Specially formulated with advanced additives technology for continuous wear protection.



### FEATURES/BENEFITS

Chevron Havoline Motor Oil is formulated with the latest base oil technology and cutting-edge additives to protect the engine under both normal and harsh driving conditions and to:

- Help reduce sludge and deposit buildup to keep engines running cleaner longer.
- Help maximize engine power and prevent engine power loss while maintaining cleanliness.
- Help prevent Low Speed Pre-Ignition (LSPI) in turbocharged direct injection engines to protect critical engine parts.
- Provides superior protection against wear and oxidation for camshafts, bearings and other vital engine parts

### PERFORMANCE CLAIMS

- Helps keep engines clean and running longer with piston deposit control up to 14% and sludge control up to 8% better than GF-6 limit<sup>1</sup>.
- Dramatically reduces engine wear and protects critical engine components. Special booster provides enhanced protection against wear and oxidation, up to 25% less friction-related wear compared to the industry standard<sup>2</sup>.
- Helps the oil retain its 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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## APPLICATIONS, SPECIFICATIONS & APPROVALS

Recommended for both new and high-mileage cars, as well as turbocharged and naturally aspirated engines. Vehicles that specify API SP or previous specification as well as GF-6 or previous specification (depending on oil grade).

Meets or exceeds the following industry and OEM standards:

SAE Grade	10W-30	10W-40	20W-50	30
API SP/SN Plus	X	X	X	X
API SP/SN Plus/ Resource Conserving	X			
ILSAC GF-6A	X			
Chrysler MS-6395	X			
GM 6094M	X			
Fiat 9.55535-CR-1	X			

## TYPICAL TEST DATA

SAE Grade	Test Method	10W-30	10W-40	20W-50	30
<i>Product Number</i>		224103	224104	224105	224100
<i>SDS/MSDS Number</i>					
USA		17808	17808	17808	17808
Colombia		31063	-	-	-
El Salvador		31407	-	31407	-
Density at 15°C, kg/L	ASTM D4052	0.8726	0.8713	0.8794	0.8784
Viscosity, Kinematic					
mm <sup>2</sup> /s at 40°C	ASTM D445	69.0	95.7	166.8	82.3
mm <sup>2</sup> /s at 100°C	ASTM D445	10.3	14.0	18.6	10.5
Viscosity, Cold Crank (CCS) (cP), CCS @ °C	ASTM D5293	-25/6500	-25/6200	-15/8300	N/A
Viscosity Index	ASTM D2270	136	150	126	112
Flash Point, °C(°F)	ASTM D92	236(457)	238(460)	248(478)	246(475)
Sulfated Ash, mass %	ASTM D874	0.8	0.8	0.8	0.8
Phosphorus, mass %	ASTM D4951	0.077	0.077	0.077	0.077
Zinc, mass %	ASTM D4951	0.087	0.087	0.087	0.087

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

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