



# HAVOLINE<sup>®</sup> PRO-DS<sup>®</sup> FULL SYNTHETIC MOTOR OIL

## SAE 0W-16, 0W-20, 5W-20, 5W-30, 10W-30

### PRODUCT DESCRIPTION

Chevron Havoline<sup>®</sup> PRO-DS<sup>®</sup> Full Synthetic Motor Oil is a premium full synthetic oil with Deposit Shield<sup>®</sup> Technology, combined with a proprietary cleaning booster, designed to provide ultimate protection that prolongs the peak performance and efficiency of your engine, particularly under harsh stop-and-go driving conditions, extreme temperatures and heavy loads. Outstanding protection for vehicles with direct-injection and turbochargers and those that require a full synthetic motor oil. Exceeds the latest and most demanding industry and automaker standards.



### FEATURES/BENEFITS

Chevron Havoline PRO-DS Full Synthetic Motor Oils use the latest full synthetic base oils and special cleaning additives including antioxidants and friction modifiers to provide unmatched protection and performance. They are formulated to provide outstanding protection against harmful engine deposits, while providing excellent oxidation protection and volatility control, and superior cold temperature performance over part synthetic and mineral motor oils. Chevron Havoline PRO-DS Full Synthetic Motor Oils are formulated to:



- Provide unsurpassed protection against sludge, varnish and deposit buildup to keep modern engines running cleaner, stronger, and for longer.
- Help maximize the power of your engine while maintaining fuel efficiency and cleanliness.
- Deliver excellent fuel economy retention which helps save on fuel costs.

- Provide excellent protection against aeration to keep oil passages flowing smoothly to protect vital components.
- 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.

### PERFORMANCE CLAIMS

- Unparalleled turbocharger cleanliness protection<sup>1</sup>.
- Preserves fuel economy up to 50% better than GM's tough dexos1 Gen2 standards<sup>2</sup>.
- Reduces piston deposits.
- Unsurpassed sludge control up to 25% better than GF-6 limits<sup>3</sup>.
- Meets or exceeds GM's tough dexos1 Gen2 standards (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 GMVFE fuel economy test using SAE 0W-20
3. Based on Sequence VH sludge and varnish test using SAE 0W-20
4. Based on Sequence IIIH deposit test using SAE 0W-20
5. Based on Sequence IVB valvetrain wear test using SAE 0W-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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6. Based on Sequence VIII corrosion test using SAE 5W-30

**APPLICATIONS, APPROVALS AND SPECIFICATIONS**

Havoline® PRO-DS® Full Synthetic Motor Oils with Deposit Shield® Technology are recommended for advanced, high power density and performance engines with turbochargers, and gasoline direct injection. Recommended for vehicles operating in extreme hot and cold or stop-and-go driving conditions. For use in most domestic and import passenger cars, SUVs, pickup trucks and vans, including new and older vehicles.

Meets or exceeds the following industry and OEM standards:

| <b>SAE Grade</b>                   | <b>0W-16</b> | <b>0W-20</b>             | <b>5W-20</b> | <b>5W-30</b>             | <b>10W-30</b> |
|------------------------------------|--------------|--------------------------|--------------|--------------------------|---------------|
| API SP/SN Plus/Resource Conserving | X            | X                        | X            | X                        | X             |
| ILSAC GF-6A                        |              | X                        | X            | X                        | X             |
| ILSAC GF-6B                        | 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 2             |              | License #<br>D135BGBE089 |              | License #<br>D135AJBD089 |               |
| 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-16    | 0W-20    | 5W-20    | 5W-30    | 10W-30   |
|--|-------------|----------|----------|----------|----------|----------|
| <i>Product Number</i>                              |             | 223517   | 223508   | 223509   | 223510   | 223511   |
| <i>SDS/MSDS Number</i>                             |             |          |          |          |          |          |
| USA  |             | 48323    | 47956    | 47959    | 47962    | 47965    |
| Canada   |             | 48325    | 47957    | 47960    | 47963    | 47966    |
| Mexico   |             | 48326    | 47958    | 47961    | 47964    | 47967    |
| Colombia   |             |          | 44191    | 44191    | 44191    | 44191    |
| Density at 15°C, kg/L                              | ASTM D4052  | 0.8447   | 0.8443   | 0.8464   | 0.8479   | 0.8527   |
| Viscosity, Kinematic<br>mm <sup>2</sup> /s at 40°C | ASTM D445   | 37.3     | 42.0     | 43.2     | 62.0     | 63.8     |
| mm <sup>2</sup> /s at 100°C                        | ASTM D445   | 7.2      | 8.0      | 8.0      | 10.8     | 10.3     |
| Viscosity, Cold Crank<br>(CCS) (cP),<br>CCS @ °C   | ASTM D5293  | -35/5900 | -35/4600 | -30/4700 | -30/4200 | -25/5150 |
| Viscosity Index                                    | ASTM D2270  | 161      | 167      | 161      | 169      | 150      |
| Pour Point, °C(°F)                                 | ASTM D5950  | -44(-47) | -43(-45) | -43(-45) | -42(-44) | -42(-44) |
| Flash Point, °C(°F)                                | ASTM D92    | 230(446) | 234(453) | 227(441) | 238(460) | 252(486) |
| Phosphorus, mass%                                  | ASTM D4951  | 0.077    | 0.077    | 0.077    | 0.077    | 0.077    |
| Ash, sulphated, mass%                              | ASTM D874   | 0.9      | 0.9      | 0.9      | 0.9      | 0.9      |
| Zinc, mass%  | ASTM D4951  | 0.089    | 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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