



# HAVOLINE<sup>®</sup> PRODS<sup>®</sup> FULL SYNTHETIC MOTOR OIL

## SAE 5W-40, SAE 0W-40, Euro 0W-30, Euro 5W-40

### PRODUCT DESCRIPTION

Chevron Havoline<sup>®</sup> ProDS<sup>®</sup> Full Synthetic Motor Oil is a premium full synthetic oil with Deposit Shield<sup>®</sup> Technology specially engineered for the highest level of protection demanded by high-performance engines like European luxury vehicles and sport utility vehicles (SUV's). These motor oils help provide outstanding performance and exceptional wear protection under harsh stop-and-go driving conditions, extreme temperatures and heavy loads.

Havoline ProDS Full Synthetic Motor Oil delivers advanced protection for high output, supercharged and turbocharged performance vehicles, and exceeds the latest and most demanding industry and automaker standards.

### CUSTOMER BENEFITS

Chevron Havoline ProDS Full Synthetic Motor Oil uses full synthetic base oils and special cleaning additives, including antioxidants and friction modifiers, to provide unmatched protection against harmful engine deposits and premature wear in high performance or extended service engines, outstanding thermal and shear stability to control viscosity, and superior cold temperature performance. Its exceptional resistance to volatility helps promote low oil consumption, fast engine starting (especially in cold weather), and rapid lubrication of all moving parts.

Chevron Havoline ProDS Full Synthetic Motor Oils help deliver:

- Outstanding protection against sludge, varnish, deposit buildup and emissions to keep modern engines running cleaner, stronger, and for longer.
- Superior anti-wear protection with advanced additives that provide a protective layer on metal

surfaces for quick lubrication during starting to help preserve engines and turbocharger durability.

- Maximum engine power while maintaining fuel efficiency and cleanliness.
- Excellent thermal protection in both extreme hot and cold conditions to help maintain oils' original viscosity for longer, providing protection against oil breakdown, allowing for fast starts, and maintaining fuel economy.

### FEATURES

Havoline ProDS Full Synthetic Motor Oils exhibit outstanding thermal and shear stability to control viscosity and performance during extended oil drain intervals.



The exceptional resistance to volatility and lasting stability of synthetic base stocks promotes low oil consumption, fast engine starting (especially in cold weather), and extremely rapid lubrication of all moving parts. Advanced additives also help protect high-performance engines against harmful deposits and premature wear.

Below is a summary of each viscosity in the Havoline ProDS Full Synthetic Motor Oil portfolio.

#### SAE 5W-40:

- Offers European long drain service capability with exceptional TBN retention (acid neutralization).
- Specifically formulated to provide outstanding oxidation stability and excellent wear protection.
- Helps protect the engine over a wide range of extreme temperatures, particularly in ultra-hot operating areas such as the turbocharger.

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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- Meets demanding European specifications, and is approved for select BMW, Mercedes-Benz and Volkswagen specifications.
- Meets or exceeds the requirements of API SN and ACEA A3/B3, A3/B4.

**SAE 0W-40:**

- Premium full synthetic motor oil specially designed for high-performance passenger car gasoline and light duty diesel vehicles in all operating conditions.
- Outstanding protection against sludge, varnish and deposit buildup to help keep modern engines running cleaner and for longer.
- Excellent thermal protection helps maintain oils' original viscosity for longer, providing protection against oil breakdown and helping to keep engines running stronger.
- Improved stability and lower volatility helps maintain oil performance for longer and reduces oil consumption for enhanced engine performance.
- Help maximize the power of your engine while maintaining fuel efficiency and cleanliness.
- Meets the requirements of API SN and ACEA A3/B4 and is suitable for use in turbocharged passenger car gasoline and light duty diesel applications.

**Euro 0W-30:**

- High-performance full synthetic motor oil specially designed for modern European vehicles with advanced cleaning additives to help protect against sludge, varnish and deposit buildup, and to extend engine life in severe operating conditions.
- Premium base oils and advanced additives offer excellent viscosity control, helping to extend oil drain periods.
- Low temperature control helps increase engine protection and rapid lubricant circulation during cold start-ups, even when biodiesel is used.
- Suitable for a range of gasoline and diesel passenger car and light duty diesel engines without diesel particulate filters (DPF) or three way catalyts (TWC).
- Meets the requirements of ACEA A3/B4 and a range of European OEM specifications including Daimler, Volvo, VW and Renault.

**Euro 5W-40:**

- Select full synthetic base oils and advanced additive technology help make Euro 5W-40 a premium engine oil.
- Lower levels of Sulfated Ash, Phosphorus and Sulfur (SAPS) help to fully protect emissions reduction systems while providing outstanding protection of the engine's mechanical components.
- An ideal choice for gasoline engines equipped with three-way catalytic converters and newer, light duty diesel engines equipped with Diesel Particulate Filters (DPF).
- Helps provide protection over a broad range of engines, ranging from SUVs, luxury and high-performance vehicles to mid-size sedans and hybrid vehicles.
- Specifically formulated to meet the most demanding needs of the latest model European cars and is recommended for many BMW, Mercedes-Benz, Porsche, and Volkswagen service applications.
- Meets the requirements of API SN and ACEA C3 and is also licensed under the dexos2™ specification (License no. GB2E0601089).<sup>1</sup>



<sup>1</sup> dexos2 is a registered trademark of General Motors LLC.

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**APPLICATIONS, SPECIFICATIONS, MANUFACTURER APPROVALS**

Havoline® ProDS® Full Synthetic Motor Oils are recommended for European four-stroke gasoline and light duty diesel engines in passenger cars, sport utility vehicles, and light trucks.

Specifications	5W-40	0W-40	Euro 0W-30	Euro 5W-40
API CF†	Recommended			
API SN and all previous "S" service categories	Meets	Approved		Meets
API SL			Meets	
ACEA A3/B3†, A3/B4	Meets	Meets	Meets	
ACEA C3				Meets
BMW Longlife-01 (6th Edition)	Meets			
BMW Longlife-04 (6th Edition)				Meets
FCA US LLC (formerly Chrysler Group LLC) MS-12991	Meets			
Ford WSS-M2C937-A		Meets		
GM dexos2™ (License no. GB2E0601089)				Licensed
Daimler-MB Approval 226.50			Approved	
Daimler-MB Approval 229.30	Approved		Approved	
Daimler-MB Approval 229.31				Approved
Daimler-MB Approval 229.50	Approved		Approved	
Daimler-MB Approval 229.51				Approved
Porsche A40	Meets			Meets
RN 0700/0710		Meets	Approved	
Volvo 95200356			Approved	
VW 501.01†	Recommended			
VW 502 00	Approved	Approved		Meets
VW 505 00	Approved	Approved		Approved
VW 505 01				Approved

† Obsolete specification.

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**TYPICAL TEST DATA**

<b>SAE Grade</b>	<b>5W-40</b>	<b>0W-40</b>	<b>Euro 0W-30</b>	<b>Euro 5W-40</b>
<i>Product Number</i>	223726	223513	223512	223504
<i>SDS/MSDS Number</i>				
<i>U.S.</i>	36693	59865	59877	36238
<i>Canada</i>	36710	59867	59879	36239
<i>Mexico</i>	36711	59866	59878	36240
<i>Colombia</i>	41483			41482
API Gravity	34.3	36.2	36.2	33.7
Density @15°C, kg/L	0.853	0.844	0.844	0.856
Viscosity, Kinematic				
mm <sup>2</sup> /s at 40°C	83.6	74.9	70	83.1
mm <sup>2</sup> /s at 100°C	13.4	13.3	12.3	13.8
Viscosity, Cold Crank, mPa.s @ -30°C	5600	5900	5700	5800
Viscosity Index	163	182	177	171
Volatility, NOACK, 250°C, 1 h Evaporation Loss, %	9	10	10	9
Phosphorus, mass %	0.096	0.096	0.096	0.082
Zinc, mass %	0.105	0.105	0.105	0.093

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

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