Havoline® ProDS F SAE 5W-20

Premium performance Ford Ecoboost gasoline engine oil

Product description

Havoline ProDS F SAE 5W-20 is a premium performance synthetic passenger car engine oil especially designed for use in direct injected, turbocharged, 1.0L 3-cylinder Ford Ecoboost gasoline engines requiring lubricants meeting Ford WSS-M2C948-B specifications.

Havoline ProDS F SAE 5W-20 is formulated with premium quality synthetic base oils in combination with an advanced additive system designed to deliver long-life engine wear resistance, cold temperature protection, reduced exhaust emissions, and improved fuel efficiency performance.

Customer benefits

• Designed to reduce engine friction and provide improved fuel economy without compromising on engine reliability and durability
• Helps reduce maintenance costs through extended drain times and advanced long-life engine and emission system protection
• Low Phosphorus formulation helps protect three-way catalysts in emission control systems, offering reduced exhaust emissions
• Low temperature fluidity aids rapid lubricant circulation during cold engine starts, contributing to increased engine protection
• Synthetic base oils in combination with advanced cleaning additives minimise deposit formation and wear, helping extend engine life
• Advanced cleaning additives designed to minimise deposit and sludge build-up, extend engine life and maintain fuel economy

Product highlights

- Designed for improved fuel economy
- Offers long-life engine and emission system protection
- Helps protect three-way catalysts
- Low temperature engine protection
- Promotes extended engine life

Selected specification standards include:

<table>
<thead>
<tr>
<th>ACEA</th>
<th>API</th>
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</thead>
<tbody>
<tr>
<td>Ford</td>
<td>ILSAC</td>
</tr>
<tr>
<td>Jaguar Landrover</td>
<td></td>
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</tbody>
</table>

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.
Applications

- Havoline ProDS F SAE 5W-20 is designed for Ford 1.0L 3-cylinder Ecoboost gasoline engines but can also be used for gasoline engines where WSS-M2C925-B is prescribed due to backwards compatibility*
- Havoline ProDS F SAE 5W-20 does not cover WSS-M2C917-A (Ford KA) nor WSS-M2C937-A (Ford focus ST & Ford Focus RS)*
- Consult owners’ manual if in doubt.

Approvals, performance and recommendations

Approvals

- Ford WSS-M2C948-B
- Jaguar Landrover ST-JLR 03.5004

Performance

- ACEA C5, A1/B1
- API SN-Resource Conserving
- ILSAC GF-5
- Ford WSS-M2C948-A

Recommendations

Havoline ProDS F SAE 5W-20 is suitable for use in:
- Applications requiring Ford WSS-M2C925-B and 945-A

Typical test data

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Methods</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity Grade</td>
<td>SAE 5W-20</td>
<td></td>
</tr>
<tr>
<td>Shelf Life: 60 months from date of filling indicated on the product label</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density at 15 °C, kg/l</td>
<td>ASTM D4052</td>
<td>0.832</td>
</tr>
<tr>
<td>Kinematic viscosity at 40 °C, mm²/s</td>
<td>ISO 3104</td>
<td>45</td>
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<tr>
<td>Kinematic viscosity at 100 °C, mm²/s</td>
<td>ISO 3104</td>
<td>8.4</td>
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<tr>
<td>Viscosity Index</td>
<td>ISO 2909</td>
<td>162</td>
</tr>
<tr>
<td>Pour Point, ºC</td>
<td>ISO 3016</td>
<td>-39</td>
</tr>
<tr>
<td>Flash Point COC, ºC</td>
<td>ISO 2592</td>
<td>234</td>
</tr>
</tbody>
</table>

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

Disclaimer Chevron accepts no liability for any loss or damage suffered as a result of using this product for any application other than applications specifically stated in any Product Data Sheet.

Health, safety, storage and environmental Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS's are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

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