RAVENOL VMO SAE 5W-40

VISCOSITY 5W-40
SPECIFICATIONS API SN | API CF | ACEA C3
FABRICATION SYNTHETIC
APPROVALS MB-FREIGABE 229.31 | BMW LONGLIFE-04 | GM DEXOS 2 | MB-APPROVAL 229.51 | VW 505 00 | VW 505 01 | LICENSE: API SN
RECOMMENDATIONS PORSCHE A40 | FORD WSS-M2C917-A | FIAT 9.55535-S2 | FIAT 9.55535-GH2 | CHRYSLER MS-1106 | VW 502 00

ART.-NR. 1111133

1 L | 1111133-001
4 L | 1111133-004
5 L | 1111133-005
10 L | 1111133-010
20 L | 1111133-020
20 L | 1111133-B20
60 L | 1111133-060
60 L | 1111133-D60
208 L | 1111133-208
208 L | 1111133-D28
1000 L | 1111133-700

RAVENOL VMO SAE 5W-40 is a synthetic Mid SAPS low friction motor oil with CleanSynto® technology for passenger car gasoline and diesel engines with and without turbo-charging and direct injection. RAVENOL VMO SAE 5W-40 achieves a high viscosity index through its formulation with special base oils. The excellent cold start behaviour provides an optimum lubricating safety during the cold run phase.

RAVENOL VMO SAE 5W-40 extends long life of DPF and TWC. Developed for fuel economy and energy conserving in EURO VI, EURO V and EURO IV Standard engines with normal and extended oil change intervals (until 50,000 km or 2 years possible).

RAVENOL VMO SAE 5W-40 minimizes friction, wear and fuel consumption with excellent cold start characteristics. Because of a considerable fuel saving RAVENOL VMO SAE 5W-40 contributes to protect the environment by reducing the emissions. Suitable for extended oil change intervals where recommended by manufacturer.

Application Notes

RAVENOL VMO SAE 5W-40 is universal synthetic low friction motor oil especially developed for pump-jet diesel engines. Moreover, this lubricant is excellent suitable for gasoline and diesel engines in passenger cars and vans with and without turbo charger. Due to the specific composition is RAVENOL VMO SAE 5W-40 excellent suitable for use for several of the latest OEM requirements.

Characteristics

RAVENOL VMO 5W-40 offers:

- Fuel economy in part and full power operation
- MID SAPS = reduced Sulphated Ash, Phosphorous and Sulphur
- Excellent wear protection and high viscosity index also under high-speed driving conditions, the long life of the engine
- Excellent cold starting characteristics also at low temperatures below -30°C
- The function of the hydro tappet is ensure at all temperatures
- A safe lubricant film at high operating temperatures
- Certificate / Product Information -

- Low evaporative tendency, so lower oil consumption
- No deposits in combustion chambers, in the piston ring zone and valves because of oil conditioned
- Neutrality towards sealing materials
- Extended oil change intervals to protect natural resources

<table>
<thead>
<tr>
<th>Property</th>
<th>Unit</th>
<th>Data</th>
<th>Audit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density at 20°C</td>
<td>kg/m³</td>
<td>848,0</td>
<td>EN ISO 12185</td>
</tr>
<tr>
<td>Colour</td>
<td></td>
<td>gelbraun</td>
<td>visual</td>
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<tr>
<td>Viscosity at 100°C</td>
<td>mm²/s</td>
<td>14,4</td>
<td>DIN 51 562</td>
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<tr>
<td>Viscosity at 40°C</td>
<td>mm²/s</td>
<td>87,5</td>
<td>DIN 51 562</td>
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<td>Viscosity index VI</td>
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<td>171</td>
<td>DIN ISO 2909</td>
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<tr>
<td>HTHS at 150°C</td>
<td>mP*a</td>
<td>3,75</td>
<td>ASTM D5481</td>
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<tr>
<td>CCS Viscosity at -30°C</td>
<td>mPa*s</td>
<td>6375</td>
<td>ASTM D5293</td>
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<tr>
<td>Low Temp. Pumping viscosity (MRV) at -35°C</td>
<td>mPa*s</td>
<td>21.100</td>
<td>ASTM D4684</td>
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<tr>
<td>Pourpoint</td>
<td>°C</td>
<td>-45</td>
<td>DIN ISO 3016</td>
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<tr>
<td>Noack Volatility</td>
<td>% M/M</td>
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<td>ASTM D5800/b</td>
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<td>Flash point</td>
<td>°C</td>
<td>242</td>
<td>DIN ISO 2592</td>
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<tr>
<td>TBN</td>
<td>mg KOH/g</td>
<td>7,2</td>
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<tr>
<td>Sulphated ash</td>
<td>%wt.</td>
<td>0,77</td>
<td>DIN 51 575</td>
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All information correspond to the best of our knowledge to the actual situation of the cognitions and our development. Subject to alterations. All references made to DIN-norms are only for the description of the goods. There is no guarantee. In case there will be any problems please contact the technical service.