DYNAMIC SYNTHETIC
SAE 5W-40

Product Description

DYNAMIC SYNTHETIC is premium fully synthetic diesel engine oil synthesized with DDL Booster Technology to enhance engine cleanliness and prevent sludge formation for superior performance of modern diesel vehicles. It offers maximum engine performance, maximizes engine protection, provides excellent heat resistance together with prolong engine life.

Benefits

- Offers superior thermal and oxidation stability as well as maintains consistent viscosity and strong oil film throughout the service period.
- Provides superb soot handling as well as prevents the build-up of deposits, sludge and varnish.
- Eases starting while additionally protecting against wear at start-up.
- Improves fuel economy, reduces engine oil consumption and provides the maximum oil drain intervals.
- Field proven with 4WD pickup trucks under the most extreme driving conditions in Thailand.

Applications

- Designed for superior performance of modern diesel vehicles including common rail system of passenger cars, MPVs and SUVs.
- Recommended for all models of diesel pick up trucks and commercial vehicles equipped with EGR (Exhaust Gas Recirculation) or turbocharger.
- Suitable for diesel dual fuel gas engines.
- Can be used for heavy-duty diesel engines recommended viscosity grade SAE 5W-40.
Typical Characteristics

<table>
<thead>
<tr>
<th>Tests</th>
<th>Methods</th>
<th>Units</th>
<th>Results 5W-40</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density at 15 °C</td>
<td>ASTM D 4052</td>
<td>g/cm³</td>
<td>0.855</td>
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<tr>
<td>Kinematic Viscosity at 40 °C</td>
<td>ASTM D 445</td>
<td>mm²/s</td>
<td>94.0</td>
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<tr>
<td>Kinematic Viscosity at 100 °C</td>
<td>ASTM D 445</td>
<td>mm²/s</td>
<td>15.0</td>
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<tr>
<td>Viscosity Index</td>
<td>ASTM D 2270</td>
<td></td>
<td>167</td>
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<tr>
<td>MRV at -35 °C</td>
<td>ASTM D 4684</td>
<td>mPa.s</td>
<td>35,400</td>
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<td>Cold-cranking Simulator at -25 °C</td>
<td>ASTM D 5293</td>
<td>mPa.s</td>
<td>6,090</td>
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<tr>
<td>Flash Point (COC)</td>
<td>ASTM D 92</td>
<td>°C</td>
<td>232</td>
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<tr>
<td>Pour Point</td>
<td>ASTM D 5950</td>
<td>°C</td>
<td>-39</td>
</tr>
</tbody>
</table>

Performance Standards

- API CI-4, CH-4, CG-4/SM
- ACEA E7
- VOLVO VDS-4
- MB 228.31
- CUMMINS 20081

Health and Safety

This product shows no significant health or safety hazard when used under the recommended applications and suitable handling.

Avoid the direct contact. Wash immediately after contact. Health and safety information is available on the Safety Data Sheet (SDS) which can be obtained from http://pttlubricants.pttor.com

The product can cause some skin irritation and has flash point higher than 93.4°C

Note: Data and information contained in this publication are based on standard test under laboratory conditions and/or performance test. To consider the use of PTT Lubricants’ products in particular application, customer is responsible for determining whether product and information are appropriate for customer conditions or should consult with PTT Lubricants’ technical service division. The procedure of using any lubricant may differ or change depended on different machines and their manuals. Therefore, we recommend to read, understand and review the latest SDS in order to ensure the use of product is accomplished safety.