Shell T2 HD 15W-40

Multigrade Heavy Duty Diesel Engine Oil

Shell T2 HD oil has been formulated to provide reliable protection and uses "Low-SAPS" additive technology to protect in modern, low-emission engines.

Performance, Features & Benefits

Shell HD T2 engine oil has been designed to meet the API CK-4 specification and provide:

- Performance in both on-highway and off-highway equipment.
- Backwards compatibility for older equipment requiring API CJ-4, CI-4 Plus, CI-4 or CH-4 diesel engine oil.
- The low ash formulation helps protect the exhaust catalysts and particulate filters found on the latest low emission vehicles.
- Delivers performance required for API CK-4 specification

Shell T2 HD has been formulated to meet the most recent API CK-4 specification. This specification requires proven performance in key tests around oxidation control, aeration control, and shear stability.

Main Applications

Suitable for use in all on or off highway engines requiring an API CK-4, CJ-4, CI-4 Plus, CI-4, or CH-4 diesel oil in this viscosity grade.

Specifications, Approvals & Recommendations

- API CK-4, CJ-4, CI-4 Plus, CI-4, CH-4, SN
- ACEA E9
- Caterpillar, ECF-3, ECF-2
- Cummins CES 20086, 81
- Detroit Fluids Specification (DFS) 93K222, 93K218
- Volvo VDS-4.5, VDS-4
- Mack EOS-4.5, EO-O Premium Plus

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

Typical Physical Characteristics

<table>
<thead>
<tr>
<th>Properties</th>
<th>Method</th>
<th>Shell HD T2 15W-40</th>
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</thead>
<tbody>
<tr>
<td>Kinematic Viscosity @40°C</td>
<td>ASTM D445</td>
<td>115.6</td>
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<tr>
<td>Kinematic Viscosity @100°C</td>
<td>ASTM D445</td>
<td>15.3</td>
</tr>
<tr>
<td>Dynamic Viscosity @-20°C</td>
<td>ASTM D5293</td>
<td>6200</td>
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<tr>
<td>Viscosity Index</td>
<td>ASTM D2270</td>
<td>138</td>
</tr>
<tr>
<td>Total Base Number</td>
<td>ASTM D2896</td>
<td>10</td>
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<tr>
<td>Density @15°C</td>
<td>ASTM D4052</td>
<td>0.875</td>
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<tr>
<td>Flash Point (COC)</td>
<td>ASTM D92</td>
<td>237</td>
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<tr>
<td>Pour Point</td>
<td>ASTM D97</td>
<td>-36</td>
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</tbody>
</table>

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.
Health, Safety & Environment

• Health and Safety
  Shell HD T2 is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.
  Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.
  Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from http://www.epc.shell.com/

• Protect the Environment
  Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

Additional Information

• Advice
  Advice on applications not covered here may be obtained from your Shell representative.