



RELIANT™

A new generation of diesel engine protection you can rely on.

D-A
LUBRICANT COMPANY



New Requirements, New Performance Levels

Advances in diesel engine technology have escalated significantly from what existed a decade ago. Today's engines are substantially more powerful and efficient than once imagined. Changes made to achieve this have created more severe operating conditions that place new levels and types of stress on the engine oil.

In response to this, the lubricant industry has adopted new performance standards, designated as API CK-4. Engine oils meeting this new standard must deliver increased levels of engine protection and oil durability that meet the needs of new engine designs while simultaneously providing a higher degree of protection for older model engines. Equipment manufacturers are adopting elevated standards at the same time to meet the specific needs of their engine designs.

Meeting the Challenge

D-A Lubricant Company updated Reliant™ products to respond to the new challenges of diesel engine protection. Formulated to robustly meet industry standards, Reliant™ offers users a high degree of confidence that they are doing the right thing to keep their equipment working reliably. Compared to previous generations of products, Reliant™ will deliver:

- Substantial engine durability improvements for long reliable equipment life
- Enhanced resistance to oil breakdown to maintain flow properties and maximize drain interval potential
- Confidence of performance in both new and older vehicle models (backwards compatible)

Viscosity Grades

Both viscosity profiles meet the full requirements for protection and performance. Always consult your owner's manual for proper oil viscosity and quality selection guidance.

10W-30 *For improved fuel efficiency and cold flow properties*

15W-40 *Traditional diesel engine oil viscosity profile*



Applications

Reliant™ Diesel Engine Oils perform in a wide range of heavy-duty applications, in challenging operating environments found on- and off-road. The following industry and specific equipment manufacturer standards are approved and/or suitable for use.

<i>API CK-4</i>	<i>A</i>	<i>Deutz DQC III-10 LA</i>	<i>S</i>
<i>API CJ-4</i>	<i>A</i>	<i>Mack EO-S-4.5</i>	<i>S</i>
<i>API CI-4 Plus</i>	<i>A</i>	<i>MB 228.31</i>	<i>S</i>
<i>API CI-4</i>	<i>A</i>	<i>JASO DH-2</i>	<i>S</i>
<i>Ford WSS M2C-171-F1</i>	<i>A</i>	<i>Volvo VDS-4.5</i>	<i>S</i>
<i>Cummins CES 20086</i>	<i>S</i>	<i>Renault Truck RLD-4</i>	<i>S</i>
<i>Detriot Diesel DFS93K222</i>	<i>S</i>	<i>CAT ECF-3</i>	<i>S</i>
<i>ACEA E9-16</i>	<i>S</i>	<i>MTU Type 2.1</i>	<i>S</i>

A=Approved S=Suitable for Use

Typical Properties

<i>TESTS</i>		<i>ASTM</i>	<i>15W-40</i>	<i>10W-30</i>
<i>Viscosity@100 °C</i>	<i>cSt</i>	<i>D445</i>	<i>14.8</i>	<i>11.6</i>
<i>Viscosity@40 °C</i>	<i>cSt</i>	<i>D445</i>	<i>107.7</i>	<i>78.8</i>
<i>Viscosity Index</i>		<i>D2270</i>	<i>142</i>	<i>140</i>
<i>CCS</i>	<i>cP</i>	<i>D5293</i>	<i>5100@-20C</i>	<i>6300@-25C</i>
<i>MRV Viscosity</i>	<i>cP</i>	<i>D4684</i>	<i>17900@-25C</i>	<i>21700@-30C</i>
<i>HTHS</i>	<i>cP</i>	<i>D4683</i>	<i>4.1</i>	<i>3.6</i>
<i>TBN</i>	<i>mg KoH/g</i>	<i>D2896</i>	<i>10</i>	<i>10</i>
<i>Flash Point</i>	<i>°C</i>	<i>D92</i>	<i>245</i>	<i>238</i>
<i>Sulfated Ash</i>	<i>wt%</i>	<i>D874</i>	<i>0.99</i>	<i>0.99</i>
<i>Pour Point</i>	<i>°C</i>	<i>D97</i>	<i>-35</i>	<i>-40</i>



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