Delo® Gold Ultra SAE 15W-40
Multifunctional Diesel Engine Oil

Product highlights:
High performance, multigrade, heavy-duty diesel engine oil specifically designed to lubricate a wide range of engines requiring API CI-4 or ACEA E7 performance lubricants, including those fitted Selective Catalytic Reduction (SCR) and / or Exhaust Gas Recirculation (EGR) emission control technologies.

Formulated with ISOSYN® technology to provide exceptional soot dispersancy, deposit control and wear protection.

Customer benefits

- **Reduces maintenance costs** – ISOSYN® technology, including a combination of high performance hydrocracked base fluids and carefully balanced metallic detergent and ashless dispersant additive system, provides excellent overall engine cleanliness in all service conditions. ISOSYN® technology also confers the high degree of soot dispersancy required to maintain oil drain intervals in modern engine designs. Highly effective oxidation stability protects against the formation of gums and varnish at elevated temperatures.

- **Prolongs engine life** – High efficiency dispersant combination plus proven metallo-organic anti-wear additive system provides excellent protection against wear of critically loaded components under all operating conditions. Multigrade viscosity provides additional protection against wear at start-up and under high temperature operating conditions.

- **Preserves full power and performance** – Outstanding metallic detergent additive system preserves full power and performance by providing excellent upper-ring-belt deposit control under the high temperatures encountered in turbocharged diesel engines.

- **Extends oil and filter service intervals** – Highly effective antioxidant system inhibits the formation of sludge forming materials which can lead to premature oil thickening and filter plugging. Very effective dispersant system further assists by keeping insoluble contaminants finely suspended in the oil, minimizing their ability to block oil filters.

Applications

- Mixed fleets of diesel engines (high speed, four-stroke, turbocharged or naturally aspirated)
- Four-stroke gasoline engines in mixed fleets of diesel and gasoline engines
- Commercial road transport
- Off-highway vehicles and plant
- Agricultural tractors and farm machinery
- High speed diesel engines in marine service (e.g., fishing boat, river transport)

A Chevron company product

All trademarks are property owned by Chevron Intellectual Property LLC.
• Generator sets

• Mobile hydraulic systems (where oil type and viscosity are appropriate)

• Diesel engines utilizing diesel fuels with up to 30% biodiesel (B30)*

Note: * When using Biodiesel blended fuel meeting ASTM D7467 (B6 – B20) or equivalent and higher blends when blended with B100 as per ASTM D6751 or equivalent. When using >B6 biodiesel it is critical to monitor the engine oil level and performance. Refer OEM recommendation for oil selection and drain intervals when using biodiesel.

Performance Standards

• API CI-4, CH-4 / SL
• ACEA E7
• Caterpillar ECF-1-a
• Cummins CES 20078, 77, 76
• Daimler MB Approval 228.3
• Detroit Diesel 93K215
• Mack EO-N
• MAN M 3275-1
• MTU Category 2
• Renault RLD-2
• Volvo VDS-3

Meets the requirements of
• API CF-4, CF, CD
• ACEA E5-02
• Cummins CES 20072, 20071
• Deutz DQC-III-10
• Mack EO-M Plus
• JASO DH-1
• Global DHD-1
Typical key properties

<table>
<thead>
<tr>
<th>DELO® GOLD ULTRA TEST</th>
<th>TEST METHODS</th>
<th>RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAE Grade</td>
<td>ASTM</td>
<td>15W-40</td>
</tr>
<tr>
<td>Product Code</td>
<td>D2896</td>
<td>500574</td>
</tr>
<tr>
<td>Base No., mg KOH/g</td>
<td>D784</td>
<td>10.2</td>
</tr>
<tr>
<td>Sulfated Ash, m %</td>
<td>D445</td>
<td>1.4</td>
</tr>
<tr>
<td>Viscosity, mm²/s @ 40°C</td>
<td>D445</td>
<td>115</td>
</tr>
<tr>
<td>mm²/s @ 100°C</td>
<td>D2270</td>
<td>15.1</td>
</tr>
<tr>
<td>Viscosity Index</td>
<td></td>
<td>137</td>
</tr>
</tbody>
</table>
Service Considerations

For vehicles fitted with Diesel Particulate Filters (DPF), Delo 400 MGX SAE 15W-40 or Delo 400 SLK SAE 15W-40 should be selected in accordance with the manufacturer’s recommendations. The use of these low SAPS (sulfated ash, phosphorus and sulfur) products will maximize intervals between filter cleaning.

While modest by typical heavy duty diesel standards, Delo Gold Ultra has a level of phosphorus higher than permitted by certain recent standards for passenger car motor oils, e.g. ILSAC GF-5, and the ACEA “C” standards. Optimum life of catalytic emission control systems will be achieved by using oils of the performance standard recommended by the vehicle manufacturer.

When using with biodiesel blends containing >6% B100, monitoring oil condition is critical. Fuels with higher biodiesel content increase the risk of fuel dilution in the engine oil. This reduces the oxidation stability of the engine oil as biodiesel tends to oxidise more rapidly thus directly impacting the oil drain intervals. Biodiesel contents greater than B6 have a lower energy content than diesel fuel, which may result in slight horsepower loss and slightly increased fuel consumption.

Always follow OEM recommendation for appropriate fuel and engine oil selection.

This product is not recommended for motorcycle engines.