Delo® 400 XLE HD SAE 10W-40

Premium performance synthetic heavy-duty engine oil (Supersedes Ursa Ultra XLE SAE 10W-40)

Product description

Delo 400 XLE HD SAE 10W-40 is a premium performance synthetic heavy-duty engine oil. It is designed for naturally aspirated and turbocharged four-stroke diesel and gas engines in on- and off-highway and construction applications and features ISOSYN® technology, a combination of premium base oils and additives, formulated to promote optimum diesel engine protection.

Delo 400 XLE HD SAE 10W-40 is formulated with advanced low SAPS additive technology designed to meet Euro VI emission requirements for Volvo, Daimler, DAF and Iveco engines, and offers backwards compatibility with legacy engine technology, meeting both full SAPS and lower SAPS specifications where permitted by OEMs.

Delo 400 XLE HD SAE 10W-40 features a combination of synthetic base oils with a range of latest technology dispersant, detergent, oxidation inhibition, anti-wear, anti-corrosion, viscosity improver, and foam suppression additives and is recommended for extended drain intervals. Delo 400 XLE HD SAE 10W-40 combines ACEA E4, E6, E7 and E9 specifications.

Customer benefits

- Suitable for a wide range of engine types and applications, helps keep inventories to a minimum and reduce maintenance costs
- Designed to protect against soot and wear in valves, piston rings and piston lands, offers long service life and low maintenance
- Helps reduce downtime and cleaning of emission control systems, and promotes longer diesel particulate filter (DPF) life
- Optimised additive systems, combined with synthetic base stocks control oxidation, sludge, oil thickening and extend oil drain periods

Selected specification standards include:

<table>
<thead>
<tr>
<th>ACEA</th>
<th>API</th>
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<tbody>
<tr>
<td>Caterpillar</td>
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<tr>
<td>DAF</td>
<td>Detroit Diesel</td>
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<td>Deutz</td>
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<td>JASO</td>
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<td>MAN</td>
<td>Mercedes Benz</td>
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<td>MTU</td>
<td>Renault Trucks</td>
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<td>Scania</td>
<td>Voith</td>
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<td>Volvo</td>
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Always confirm that the product selected is consistent with the original equipment manufacturer’s recommendation for the equipment operating conditions and customer’s maintenance practices.
• Synthetic base oil formulation promotes consistent cold engine start-up
• Offers reliable stay-in-grade performance and retains oil film strength in high load, high temperature operation

Applications
• Delo 400 XLE HD SAE 10W-40 is recommended for four-stroke naturally aspirated and turbocharged diesel engines
• Delo 400 XLE HD SAE 10W-40 is recommended for diesel engines meeting Euro IV, Euro V and the newest Euro VI emissions requirements where permitted by the OEM and is suitable for use in engines with global after treatment systems such as exhaust gas recirculation (EGR), diesel particulate filter (DPF), and selective catalytic reduction (SCR).
• Delo 400 XLE HD SAE 10W-40 is a universal technology recommended for both low SAPS (ACEA E6 and E9) technology and high SAPS performance (ACEA E7 and E4)
• Delo 400 XLE HD SAE 10W-40 is recommended for use in older engines as well as modern low emission designs. It is formulated for high performance with many fuels including low sulphur and ultra low sulphur diesel fuels, and many bio fuel formulations. In high sulphur fuels it gives TAN and TBN control equivalent to a high SAPS product
• Delo 400 XLE HD SAE 10W-40 is recommended for use in gas engines and in off-highway or construction applications in conditions where SAE 10W-40 is recommended

Recommendations may differ between engine manufacturers, so please consult driver manuals and/or dealers if in doubt.

Approvals, performance and recommendations

Approvals
• Cummins CES 20081
• Detroit Diesel 93K218
• Deutz DQC-IV-10 LA
• Mack EO-O Premium Plus
• MAN M 3477, M 3575, M 3271-1
• Mercedes Benz MB-Approval 228.51, MB-Approval 228.31
• MTU Oil Category 3.1
• Renault Trucks RLD-3
• Scania Low Ash *
• Voith Retarder B
• Volvo VDS-4

Performance
• ACEA E4, E6, E7, E9
• API CJ-4
• Caterpillar ECF-3
• JASO DH-2
• MTU Oil Category 2.1
• Renault Trucks RLD-2
• Volvo VDS-3

Recommendations
Suitable for use in:
• Applications requiring Renault Trucks RGD and RXD
• Applications requiring Renault Trucks RD, RD-2, RLD
• Applications requiring Volvo VDS-2
• Iveco Euro VI engines
• DAF extended drain (Euro III, IV, V and VI engines)

* Approval on this formulation obtained under previous name – Ursa Ultra XLE SAE 10W-40

Delo® 400 XLE HD SAE 10W-40 — Continued
## Typical test data

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Methods</th>
<th>Results</th>
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<tbody>
<tr>
<td><strong>Viscosity Grade</strong></td>
<td></td>
<td>SAE 10W-40</td>
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<tr>
<td><strong>Shelf Life:</strong> 60 months from date of filling indicated on the product label</td>
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<tr>
<td>Density at 15°C, kg/l</td>
<td>ASTM D4052</td>
<td>0.855</td>
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<tr>
<td>Kinematic viscosity at 40°C, mm²/s</td>
<td>ASTM D445</td>
<td>92.2</td>
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<tr>
<td>Kinematic viscosity at 100°C, mm²/s</td>
<td>ASTM D445</td>
<td>13.8</td>
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<tr>
<td>Viscosity Index</td>
<td>ASTM D2270</td>
<td>163</td>
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<tr>
<td>Pour point, °C</td>
<td>ASTM D5950</td>
<td>-33</td>
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<tr>
<td>Flash point COC, °C</td>
<td>ASTM D92</td>
<td>228</td>
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<tr>
<td>Total Base Number, mg KOH/g</td>
<td>ASTM D2896</td>
<td>13.0</td>
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<tr>
<td>Sulphated Ash, %wt</td>
<td>ASTM D874</td>
<td>1.0</td>
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The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.