



# Delo 400 XLE HD SAE 10W-40

## Premium performance synthetic heavy-duty engine oil

### 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



### Product highlights

- **Suitability for a wide range of OEM applications helps reduce inventories**
- **Helps keep piston rings, piston lands and valves clean**
- **Offers latest technology engine protection**
- **Formulated to reduce emission control system maintenance**
- **Designed for extended oil drain intervals**
- **Promotes good cold-start wear protection**

#### Selected specification standards include:

ACEA	API
Case New Holland	Caterpillar
Cummins	DAF
Detroit Diesel	Deutz
Iveco	Fiat Powertrain
JASO	Mack
MAN	Mercedes Benz
MTU	Renault Trucks
Scania	Voith
Volvo	

- 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 suitable for use

#### Approvals

- |                  |   |
|------------------|---|
| • Cummins        | CES 20081                                 |
| • Detroit Diesel | DFS 93K218                                |
| • Deutz          | DQC-IV-10 LA                              |
| • Mack           | EO-O Premium Plus                         |
| • MTU            | Oil Category 3.1                          |
| • Mercedes Benz  | MB-Approval 228.51,<br>MB-Approval 228.31 |
| • Renault Trucks | RLD-3                                     |
| • Volvo          | VDS-4                                     |

#### Performance

- |                  |                                |
|------------------|--------------------------------|
| • ACEA           | E4, E6, E7, E9                 |
| • API            | CJ-4, CI-4 Plus, CI-4, CH-4    |
| • JASO           | DH-2                           |
| • Caterpillar    | ECF-3                          |
| • DAF            | Extended Drain (Euro 0 to VI)  |
| • Mack           | EO-M Plus, EO-M and EO-N       |
| • MAN            | M 3477 °, M 3575 °, M 3271-1 ° |
| • MTU            | Oil Category 2.1               |
| • Renault Trucks | RLD-2, RLD, RXD, RGD           |
| • Scania         | Low Ash                        |
| • Voith          | Retarder B                     |
| • Volvo          | VDS-3                          |

#### Suitable for use

Suitable for use in applications requiring:

- Case New Holland CNH MAT 3521
- Fiat Powertrain FPI\_9.LUBR001-TLS E9
- Iveco 18-1804-TLS E9
- Renault Trucks RD-2, RD
- Volvo VDS-2, VDS

Suitable for use in tractors and other agricultural machinery from the following manufacturers, which require an engine oil meeting the specifications listed above:

- Case New-Holland
- CLAAS
- Fendt
- Massey–Ferguson
- Mc Cormick
- SAME
- Valtra

Typical test data		
Test	Test Methods	Results
Viscosity Grade		SAE 10W-40
<b>Shelf Life: 60 months from date of filling indicated on the product label</b>		
Density at 15°C, kg/l	ASTM D4052	0.855
Kinematic viscosity at 40°C, mm <sup>2</sup> /s	ASTM D445	92.2
Kinematic viscosity at 100°C, mm <sup>2</sup> /s	ASTM D445	13.8
Viscosity Index	ASTM D2270	163
Pour point, °C	ASTM D5950	-33
Flash point COC, °C	ASTM D92	228
Total Base Number, mg KOH/g	ASTM D2896	13.0
Sulphated Ash, %wt	ASTM D874	1.0

The typical test data set out above does not constitute a specification. It is indicative only and can be affected by allowable production tolerances. Chevron may modify this test data. Modified data will supersede all previous data, so please ensure you refer to the latest version of this Product Data Sheet (PDS).

**Disclaimer: Data provided in this Product Data Sheet (PDS) is based on standard tests under laboratory conditions and is indicative only. This product should not be used for any purpose other than those expressly set out in this PDS. The user has sole responsibility for verifying that this product is suitable for the user's intended application. Neither Chevron nor its subsidiaries (i) make any warranty or representation as to the accuracy or completeness of this PDS; and/or (ii) accept liability for any loss or damage suffered as a result of the use of this product other than in accordance with the terms of this PDS.**

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.

When disposing of used product, take care to protect the environment and follow local legislation.

Safety Data Sheets (SDS's) are available for all Chevron products. If you require a SDS or any further information regarding a Chevron product, please contact your local sales office or see [www.texacolubricants.com](http://www.texacolubricants.com).

A Chevron company product