



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
- 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, CI-4 Plus, CI-4, CH-4
- JASO DH-2
- Caterpillar ECF-3
- DAF Extended Drain (Euro 0 to VI)
- Mack EO-N, EO-M Plus; EO-M
- MAN M 3477 °, M 3575 °, M 3271-1 °
- MTU Oil Category 2.1
- Renault Trucks RLD-2, RLD, RXD, RGD
- 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

° Approvals obtained can be no longer extended since obsolete by MAN

A Chevron company product

| Typical test data | | |
|--|--------------|------------|
| Test | Test Methods | Results |
| Viscosity Grade | | SAE 10W-40 |
| Shelf Life: 60 months from date of filling indicated on the product label | | |
| Density at 15°C, kg/l | ASTM D4052 | 0.855 |
| Kinematic viscosity at 40°C, mm ² /s | ASTM D445 | 92.2 |
| Kinematic viscosity at 100°C, mm ² /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).

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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.

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