



Delo[®] 400 XLE HD SAE 5W-30

Premium performance synthetic heavy-duty engine oil

Product description

Delo 400 XLE HD SAE 5W-30 is a premium performance synthetic heavy-duty engine oil. It is designed to deliver improved fuel economy and meets the performance requirements of a wide range of latest-generation naturally aspirated and turbocharged four-stroke low-emission diesel engines, legacy diesel power units and gas engines, as well as off-highway and construction service.

Delo 400 XLE HD SAE 5W-30 features ISOSYN[®] technology, a combination of premium base oils and additives, formulated to promote optimum diesel engine protection.

Delo 400 XLE HD SAE 5W-30 is designed with a viscosity index improver and advanced low SAPS additive technologies designed to deliver dependable keep-clean dispersancy and detergency performance, oxidation resistance, wear and corrosion protection with effective de-foaming agents, in engines meeting Euro VI emissions requirements for Volvo, MAN, Scania, Daimler, DAF and Iveco engines.

Delo 400 XLE HD SAE 5W-30 ensures backwards compatibility with legacy engine technology by meeting both Full SAPS and Lower SAPS specifications where allowed by the OEM. Delo 400 XLE HD SAE 5W-30 is recommended where extended drain intervals are required, meeting ACEA E4, E6, E7 and E9 claims.

Customer benefits

- Designed to optimise fuel economy performance and maintain engine wear protection
- Developed for use in on-road, off-road and construction services, low emissions and older diesel engines, helping reduce inventory costs



Product highlights

- **Wide range of on-road, off-road and construction applications**
- **Reduced inventory complexity and cost**
- **Low SAPS Euro VI technology**
- **Keep-clean engine protection**
- **Long DPF service life**
- **Extended drain intervals**

Selected specification standards include:

ACEA	API
Caterpillar	Cummins
DAF	Detroit Diesel
Deutz	Fiat Powertrain (FPT)
Iveco	Mack
MAN	Mercedes Benz
MTU	Renault Trucks
Scania	Volvo

- Low viscosity synthetic base oil formulation promotes reliable cold engine starts in sub-zero temperature conditions
- Helps keep piston rings, valves and piston lands clean, offers very good soot dispersancy and wear control, optimising engine service life
- Promotes low emissions performance and offers extended diesel particulate filter (DPF) life, helping reduce maintenance downtime
- Optimised additive technologies with synthetic base stocks help control oxidation, sludge and thickening, and extend oil drain intervals

Applications

- Delo 400 XLE HD SAE 5W-30 is a diesel engine lubricant recommended for four-stroke naturally aspirated and turbocharged diesel engines
- Delo 400 XLE HD SAE 5W-30 is recommended for diesel engines meeting Euro I-V and the newest Euro VI emissions requirements where allowed by the OEM and for use in engines with global after treatment systems. Delo 400 XLE HD SAE 5W-30 has a universal formulation recommended for both low SAPS (ACEA E6 and E9) and high SAPS performance (ACEA E7 and E4).
- Delo 400 XLE HD SAE 5W-30 is suitable for use in older engines as well as today's latest 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 5W-30 is recommended for use in many gas engines and in off-highway or construction applications operating in conditions when SAE 5W-30 is recommended

Recommendations may differ between engine manufacturers, so driver manuals and/or dealers should be consulted 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 |
| • MAN | M3271-1, M3477, M3575, M3677, M3691 |
| • Mercedes Benz | MB-Approval 228.51, MB-Approval 228.31 |

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|------------------|------------------|
| • MTU | Oil Category 3.1 |
| • Renault Trucks | RLD-3 |
| • Scania | LDF-4 |
| • Volvo | VDS-4 |

Performance

- | | |
|-------------------------|---------------------------------|
| • ACEA | E9, E6, E7, E4 |
| • API | CJ-4, CI-4 Plus, CI-4, CH-4 |
| • Caterpillar | ECF-3 |
| • DAF | Extended Drain (Euro IV to VI)* |
| • Fiat Powertrain (FPT) | FPI_9.LUBR001-TLS E6 |
| • Iveco | 18-1804 – TLS E6 |
| • Mack | EO-N, EO-M Plus, EO-M |
| • MTU | Oil Category 2.1 |
| • Renault Trucks | RLD-2, RLD, RXD, RGD |
| • Scania | Low Ash |
| • Volvo | VDS-3 |

Suitable for use

- Suitable for use in applications requiring Renault Trucks RD-2, RD
- Suitable for use in applications requiring 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

* Can be used in Euro IV & Euro V MX engines and in Euro VI MX & PX engines for DAF.

Typical test data		
Test	Test Methods	Results
Viscosity Grade		SAE 5W-30
Shelf Life: 60 months from date of filling indicated on the product label		
Density, 15 °C, kg/l	ASTM D4052	0.855
Viscosity, Kinematic at 40 °C, mm ² /s	ASTM D445	70.4
Viscosity, Kinematic at 100 °C, mm ² /s	ASTM D445	12.2
Viscosity Index	ASTM D2270	167
Pour Point, °C	ASTM D5950	-45
Flash Point COC, °C	ASTM D92	214
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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