



# Delo<sup>®</sup> 400 XLE SAE 10W-30

## Premium performance semi-synthetic heavy-duty engine oil

### Product description

Delo 400 XLE SAE 10W-30 is a premium performance semi-synthetic heavy-duty engine oil designed to meet and exceed industry and engine manufacturers' performance standards in on- and off-highway diesel applications.

Delo 400 XLE SAE 10W-30 features ISOSYN<sup>®</sup> technology, a combination of premium base oils and additives, formulated to promote optimum diesel engine protection.

Delo 400 XLE SAE 10W-30 is formulated with an advanced technology low SAPS additive system to provide diesel engine protection meeting Euro I to Euro VI emission requirements\* and GHG 17 compliant engines of on-highway trucks, running on Ultra Low Sulphur Diesel (ULSD).

Delo 400 XLE SAE 10W-30 is designed for newer engines with selective catalytic reduction (SCR), diesel particulate filter (DPF) and exhaust gas recirculation (EGR) exhaust aftertreatment systems.

### Customer benefits

- Designed for high performance piston and turbocharger oxidation resistance, promoting extended engine protection and service life
- Advanced detergency and dispersancy additives help offer keep-clean component wear and corrosion protection, maximising uptime
- Premium low viscosity SAE 10W-30 and additive system design offers up to 1% fuel consumption improvement over SAE 15W-40 oils
- Backwards compatible with API Oil Service Categories and suitable for naturally aspirated, turbocharged and electronically controlled/low emission engines



### Product highlights

- **Designed for high performance oxidation resistance**
- **Promotes wear and corrosion protection**
- **Helps improve fuel economy**
- **Backwards compatible**
- **Formulated for optimum DPF life**
- **Offers low temperature protection**

#### Selected specification standards include:

ACEA	API
Caterpillar	Cummins
DAF	Detroit Diesel
Deutz	Mack
MAN	Mercedes-Benz
MTU	Renault Trucks
Volvo	ZF

- Formulated to provide optimum diesel particulate filter (DPF) life, helping reduce downtime, cleaning and maintenance costs
- Offers improved low temperature cold-start protection with increased flow rate and pumpability versus SAE 15W-40 engine lubricants

### Applications

- Delo 400 XLE SAE 10W-30 is recommended for a wide range of naturally aspirated and turbocharged four-stroke diesel engines in which a ACEA E6, E9, API CK-4 grade and SAE 10W-30 viscosity grade are required
- Delo 400 XLE SAE 10W-30 is specifically formulated for on-highway applications, including 2017 greenhouse gas (GHG 17) compliant diesel engines with lower CO<sub>2</sub> emissions, 2010 compliant low emission diesel engines, and Euro I to Euro VI compliant engines\*; with SCR, DPF and EGR systems requiring SAE 10W-30 lubricants
- Delo 400 XLE SAE 10W-30 is also recommended for off-highway applications where a SAE 10W-30 viscosity grade is required. It is formulated for newer engines adapted for stringent emission standards in construction, agriculture, marine and mining applications with SCR, DPF and EGR systems. These newer engines generally meet Tier IV (2014) emissions requirements
- Delo 400 XLE SAE 10W-30 is compatible with previous engine models\* and previous API Oil Services Categories

\* Recommendations may differ between engine manufacturers so driver manuals and/or dealers should be consulted if in doubt.

### Approvals, performance and recommendations

#### Approvals

- Cummins CES 20086
- Detroit Diesel DFS 93K222
- Deutz DQC III-10 LA
- Mack EOS-4.5
- Mercedes-Benz MB-Approval 228.51  
Mercedes-Benz MB-Approval 228.31
- MTU Oil Category 2.1
- Renault Trucks RLD-3
- Volvo VDS-4.5

#### Performance

Delo 400 XLE SAE 10W-30 meets:

- ACEA E6, E9
- API CK-4, CJ-4, CI-4 Plus, CI-4, CH-4, SN Plus
- Caterpillar ECF-3
- DAF Extended Drain (Euro IV to VI)\*
- Mack EO-O Premium Plus, EO-N, EO-M Plus, EO-M
- MAN M3575
- Renault Trucks RLD-2, RLD, RGD
- Volvo VDS-4, VDS-3
- ZF TE-ML 03K

#### Recommendations

Delo 400 XLE SAE 10W-30 is suitable for use in applications requiring:

- Renault Trucks RD-2, RD
- Volvo VDS-2, VDS

\* 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 10W-30
<b>Shelf Life: 60 months from date of filling indicated on the product label</b>		
Density at 15°C, kg/l	ASTM D4052	0.868
Kinematic viscosity at 100°C, mm <sup>2</sup> /s	ASTM D445	11.9
Kinematic viscosity at 40°C, mm <sup>2</sup> /s	ASTM D445	81.0
Viscosity Index	ASTM D2270	142
Pour point, °C	ASTM D97	-46 typ
Flash point COC, °C	ASTM D92	230
Total Base Number, mg KOH/g	ASTM D2896	10.3
Sulphated Ash, %wt	ASTM D874	0.98

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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