

Delo[®] 400 XLE HD SAE 10W-40

Premium Performance Synthetic Heavy-Duty Diesel 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 offhighway and construction applications and features ISOSYN[®] technology.

Customer benefits and product features

Customer benefits

- **Long oil drain intervals**
Synthetic formulation with exceptional high temperature stability minimizes degradation that leads to sludge formation and oil thickening, and provides oil service intervals up to the maximum levels recommended for ACEA E6 oils in Euro IV, V and VI compliant engines.
- **Reduced emissions**
Formulated with latest generation “low-SAPS” (sulfated ash, phosphorus and sulfur) technology containing reduced levels of metals, phosphorus and sulfur, it maximizes the life of sensitive catalyst metals and extends the cleaning intervals of diesel particulate filters (DPF).
- **Helps Maximise engine life**
Proven metallo-organic anti-wear additive system reduces wear in severe service by forming a protective layer on all metal contact surfaces. Wide-range SAE 10W-40 multigrade viscosity ensures reduced friction at start-up and maximum lubricity at high operating temperatures.
- **Low oil consumption**
Highly shear-stable viscosity index improves prevent oil flow through the piston rings by maintaining oil viscosity in the high temperature ring belt area, while synthetic low volatility base fluids minimize evaporative oil loss.
- **Helps Minimise Inventory costs**
Suitable for a wide range of engine types and applications, as well as newer and older generation equipment, helps keep inventories to a minimum and reduce maintenance costs.

Product features

- 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 with Diesel Particulate Filters (DPF) fitted, and offers backwards compatibility with legacy engine technology, meeting both full SAPS and lower SAPS specifications where permitted by OEMs. It is recommended for extended drain intervals and for use with low-sulfur diesel fuel (50 ppm max).

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Applications

- Naturally aspirated and turbocharged high speed, four-stroke diesel engines burning low-sulphur diesel fuel.
- Diesel engines meeting Euro IV, V and VI emission requirements fitted with Diesel Particulate Filters (DPF), Selective Catalytic Reduction (SCR) and / or Exhaust Gas Recirculation (EGR) emission control technologies.
- Earlier European heavy-duty diesel engines meeting Euro I, II or III emission requirements burning low-sulphur diesel fuel and requiring either low SAPS (ACEA E6 and E9) technology and/or high SAPS performance (ACEA E7 and E4)
- Mixed fleets of both old and new equipment from European, North American and/or Japanese OEMs
- Stop-and-go vehicles in high soot loading service such as buses and waste collection trucks • Most light duty vehicles with diesel engines
- Off-highway vehicles and plants including agricultural equipment
- Many heavy-duty gas-fueled vehicles
- Diesel engines utilizing diesel fuels with up to 20% biodiesel (B20)

Product approvals, performance and recommendations

Performance standards

- API CJ-4, CI-4 Plus, CI-4, CH-4
- Cummins CES 20081
- Daimler MB Approval 228.51
- Daimler MB Approval 228.31
- Detroit Diesel DFS 93K218
- Deutz DQC IV-10 LA
- Mack EO-O Premium Plus
- MTU Category 3.1,
- Renault RLD-3,
- Scania Low Ash
- Voith Retarder B
- Volvo VDS-4,

Meets the key requirements of following specifications:

- ACEA E4, E6, E7, E9
- Renault RLD-2, RLD, RXD, RGD
- MAN M3477, MAN M3575, MAN M3271-1
- MTU Category 2.1,
- Volvo VDS-3
- Cummins CES 20076, CES 20077
- JASO DH-2
- CAT ECF-3

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Typical test data

DELO [®] 400 XLE HD	TEST METHOD	RESULT
SAE Grade		10W-40
Product Code		500525
Density at 15°C, kg/l	ASTM D4052	0.855
Base No., mg KOH/g	ASTM D2896	13
Base No., mg KOH/g	ASTM D4739	10.4
Sulphur, m %		0.264
Sulfated Ash, m %	ASTM D874	1.0
Viscosity,		
mm ² /s @ 40°C	ASTM D445	92.2
mm ² /s @ 100°C	ASTM D445	13.8
Viscosity Index	ASTM D2270	163

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ENVIRONMENT, HEALTH and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit the [Product Information Center](#).

This Product Data Sheet (PDS) was produced for the Asia Pacific region based on the best available information at the time of issue. The specific information included may not directly reflect the market or conditions, and may vary. For the most up-to-date, country-specific information, please contact your local customer service center.

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DELO-400-XLE-HD-SAE-10W-40/AP/PDS_V1_03/2024



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