Delo® 400 MGX SAE 15W-40

Premium Heavy Duty Diesel Engine Oil

Product description

Delo® 400 MGX SAE 15W-40 with **ISOSYN® Technology** is a heavy duty-diesel engine oil designed for both on-highway and off-highway applications. It is specifically formulated for exceptional performance in both high (up to 2000 ppm) and low sulfur diesel fuels and is ideal for the latest low emission diesel engines equipped with Diesel Particulate Filters (DPF), Selective Catalytic Reduction (SCR), and Exhaust Gas Recirculation (EGR). It is fully compatible with older diesel engine models (prior Euro V) and uses high-performance low-ash additive technology to ensure outstanding soot dispersancy, deposit control and wear protection.

Customer benefits

- **Minimized operating costs**
  Exceptional soot dispersancy and wear control. Cylinders, pistons, rings, and injectors are well protected against wear and corrosion, providing optimum service life and minimal maintenance. Contributes to maximum vehicle utilization and minimal downtime.

- **Excellent emission control system life**
  Provides optimum Diesel Particulate Filter (DPF) life for minimal downtime and cleaning, thus managing your maintenance costs.

- **Managed inventory costs**
  Backward compatible with previous API Oil Service Categories and engine models. Suitable for use in four-stroke gasoline and naturally aspirated, turbocharged and modern electronically controlled / low emission diesel engines calling for an SAE 15W-40 heavy duty motor oil.

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Applications

Delo 400 MGX SAE 15W-40 is recommended for naturally aspirated and turbocharged four-stroke diesel engines in which the API CJ-4, CI-4 PLUS, CI-4 categories and SAE 15W-40 viscosity grade are required by the manufacturers. It is formulated for engines operating under severe service and a wide range of climatic conditions. This product is recommended for use in:

- Commercial road transport, including the latest engines fitted with exhaust cleanup devices of all types.
- Vehicles meeting the most recent exhaust emissions standards, including US EPA 2002, 2007 and 2010, 2017 greenhouse gas (GHG 17) Euro IV, V and VI, and Australian ADR 80/02 and ADR 80/03 (for heavy duty).
- Mixed fleets of both diesel and gasoline engines, and both old and new equipment.
- Stop-and-go vehicles in high soot loading service such as buses and waste collection trucks.
- Most modern off-highway engines including those adapted for current and future emissions standards in construction, agriculture, marine ad mining applications.
- High speed diesel engines using high (up to 2000 ppm) or low sulfur diesel fuels.
- Diesel engines utilizing diesel fuels with up to 35% biodiesel (B35)*

*Note: * When using Biodiesel blended fuel meting ASTM D7467 (B6 – B20) or equivalent and higher blends when blended with B100 as per ASTM D6751 or equivalent. When using >B6 biodiesel it is critical to monitor the engine oil level and performance. Refer OEM recommendation for oil selection and drain intervals when using biodiesel*

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Approvals, performance and suitable for use

DELO® 400 MGX SAE 15W-40	
API CJ-4 / SM	Approved
Daimler DTFR 15C100 (Previously MB 228.31)	Approved
Detroit Diesel 93K218	Approved
Deutz DQC III-18 LA	Approved
MTU Category 2.1	Approved
ZF TE-ML 04C	Approved
ACEA E9-16, E7-24	Meets the requirements
Caterpillar ECF-3	Meets the requirements
Deutz DQC III-10 LA	Meets the requirements
Ford WSS-M2C171-E	Meets the requirements
JASO DH-2	Meets the requirements
Mack EO-O Premium Plus	Meets the requirements
MAN M 3575	Meets the requirements
Renault VI RLD-3	Meets the requirements
Volvo VDS-4	Meets the requirements

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Service considerations

Delo 400 MGX has superb Total Base Number (TBN) retention for use in either extended drain applications or use with high sulfur diesel fuels to ensure excellent acid neutralization. It is formulated for exceptional performance in either High (up to 2000 ppm) or Low Sulfur Diesel Fuels.

Delo 400 MGX SAE 15W-40 is excellent for use in new advanced engines developed to meet the latest emissions and reliability standards and in engines equipped with features like four-valve heads, supercharging, turbo-charging, direct injection, shorter piston crowns, higher power density, intercooling, full electronic management of fuel and emissions systems, exhaust selective catalytic reduction, exhaust gas recirculation, and exhaust particulate filters.

When using with biodiesel blends containing >6% B100, monitoring oil condition is critical. Fuels with higher biodiesel content increase the risk of fuel dilution in the engine oil. This reduces the oxidation stability of the engine oil as biodiesel tends to oxidise more rapidly thus directly impacting the oil drain intervals. Biodiesel contents greater than B6 have a lower energy content than diesel fuel, which may result in slight horsepower loss and slightly increased fuel consumption.

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.

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Typical test data

Delo® 400 MGX SAE 15W-40	TEST METHOD	RESULTS
SAE Grade		**15W-40**
Product Code		**500634**
Base No., mg KOH/g	ASTM D2896	10
Sulfur, m %	X-ray/ICP	0.291
Sulfated Ash, m %	ASTM D784	1.0
Kinematic viscosity,		
mm²/s @ 40°C	ASTM D445	108.4
mm²/s @ 100°C	ASTM D445	14.60
Viscosity Index	ASTM D2270	138

1224

ENVIRONMENT, HEALTH, and SAFETY. Information is available on this product in the Safety Data Sheet (SDS) 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 an SDS for this product, visit the Product Information Center.

This Product Data Sheet (PDS) was produced for the Asia-Pacific region in good faith from the best information available at the time of issue. The specific information included may not directly reflect the local market or conditions. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. For the most up-to-date, country-specific information, please contact your local customer service center.

Customers should 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.

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