



# Delo<sup>®</sup> 400 XSP-SD SAE 5W-30

## High performance synthetic heavy-duty diesel engine oil

### Product description

Delo 400 XSP-SD 5W-30 is a high performance synthetic heavy-duty diesel and gas engine oil formulated for fuel economy and extended drain, and meets the performance requirements of many naturally aspirated and turbocharged engines in on-highway, off-highway and construction service.

Delo 400 XSP-SD SAE 5W-30 is based on ISOSYN<sup>®</sup> technology, which uses low SAPS additive design to meet Euro VI emission requirements.

Delo 400 XSP-SD SAE 5W-30 is formulated with advanced dispersant and detergent technologies, and offers optimum wear, corrosion and oxidation protection with foam suppression, and viscosity improvers.

### Customer benefits

- Designed to provide improved fuel economy, high performance extended drain engine wear protection and optimum engine service life
- Low viscosity synthetic base oil promotes cold engine start wear protection for engines operating in sub-zero temperatures
- Formulated for soot dispersancy and wear control, helping to keep piston rings, valve and piston lands clean, improving uptime
- Helps minimise Diesel Particulate Filter (DPF) emission control system cleaning, and offers improved service life
- Advanced synthetic base stocks and additives offer extended drain through wear, oxidation, sludge and oil thickening control



### Product highlights

- **Designed for improved fuel economy**
- **Offers extended drain wear protection**
- **Designed for cold-start protection**
- **Formulated for keep-clean performance**
- **Helps minimise DPF cleaning**
- **Offers wear, oxidation and sludge control**

#### Selected specification standards include:

ACEA	API
Caterpillar	Cummins
Detroit Diesel	Deutz
JASO	Mack
Mercedes Benz	MTU
Renault Trucks	Volvo

## Applications

- Delo 400 XSP-SD SAE 5W-30 is formulated for four-stroke naturally aspirated and turbocharged diesel engines and is recommended for engines meeting Euro I - Euro V and the newest Euro VI emissions requirements, where allowed by OEMs. It is suitable for use with many after treatment systems.
- Delo 400 XSP-SD SAE 5W-30 is recommended for use in older engines as well as today's modern low emission designs. It is formulated for high performance with many fuels including low sulphur and ultra-low sulphur diesel fuels, and many biofuel formulations.

## Approvals, performance and recommendations

### Approvals

- Cummins CES 20086
- Detroit Diesel DDC 93K222
- Deutz DQC IV-18 LA
- Mack EOS-4.5
- Renault Trucks RLD-4
- Volvo VDS-4.5

### Performance

- ACEA E6, E7, E9
- API CK-4, CJ-4, CI-4 Plus, CI-4
- Caterpillar ECF-3
- JASO DH-2
- Mercedes Benz MB 228.51
- MTU Oil Category 3.1

Typical test data		
Test	Test Methods	Results
Viscosity Grade		<b>5W-30</b>
<b>Shelf Life: 60 months from date of filling indicated on the product label</b>		
Density at 15°C, kg/l	ASTM D4052	0.858
Kinematic viscosity at 40°C, mm <sup>2</sup> /s	ASTM D445	71.5
Kinematic viscosity at 100°C, mm <sup>2</sup> /s	ASTM D445	11.9
Viscosity Index	ASTM D2270	164
Pour point, °C	ASTM D97	-39
Flash point COC, °C	ASTM D92	231
Total Base Number, mg KOH/g	ASTM D2896	9.8
Sulphated Ash, %wt	ASTM D874	1.0

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

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