

# Delo 400 XSP-SD SAE 5W-30

## High performance synthetic heavy-duty diesel engine oil

### Product description

Delo® 400 XSP-SD SAE 5W-30 is a high performance synthetic heavy duty engine oil designed for fuel economy and meets the performance requirements of a wide range of naturally aspirated and turbocharged diesel engines in on-highway, off-highway and construction service.

Delo 400 XSP-SD SAE 5W-30 is based on ISOSYN® technology with low SAPS performance and dispersant, detergent, oxidation, anti-wear, corrosion, viscosity improver and de-foaming additives and meets Euro VI emissions requirements, while offering extended drain intervals.

### Customer benefits

- Designed for improved fuel economy performance while helping maintain robust component wear protection and engine service life
- Formulated for good performance in a wide range of engines, and helps reduce inventories, costs, and the risk of misapplication
- Low viscosity synthetic base oils offer rapid circulation in cold and sub-zero engine start-ups
- Extended drain formulation combines synthetic base stocks and additives to promote wear, oxidation, sludge and thickening control
- Offers reliable Diesel Particulate Filter (DPF) clogging protection and helps reduce cleaning while improving DPF service life



### Product highlights

- **Designed for fuel economy and engine service life**
- **Helps reduce inventories and misapplication**
- **Offers protection in sub-zero engine starts**
- **Extended drain formulation**
- **Promotes DPF protection and service life**

**Selected specification standards include:**

|                |                |
|----------------|----------------|
| ACEA           | API            |
| Caterpillar    | Cummins        |
| DAF            | Daimler Trucks |
| Detroit Diesel | Deutz          |
| Ford           | JASO           |
| Mack           | Mercedes Benz  |
| MTU            | Renault Trucks |
| Scania         | Volvo          |

## Applications

- Delo 400 XSP-SD SAE 5W-30 is a high performance engine oil recommended for four-stroke naturally aspirated and turbocharged diesel engines.
- Delo 400 XSP-SD SAE 5W-30 is recommended for diesel engines meeting Euro I - Euro V and the latest Euro VI emissions requirements where allowed by the OEMs and is suitable for use in engines with global after treatment systems.
- Delo 400 XSP-SD SAE 5W-30 is recommended for use in older engines as well as today's most 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
- Daimler Truck DTFR 15C110 (previously MB 228.51)  
DTFR 15C120 (previously MB 228.52)
- Detroit Diesel DFS 93K222
- Deutz DQC IV-18 LA (approval request submitted)  
DQC TTCD°
- Mack EOS-4.5
- MAN M3677, M3691
- MTU Oil Category 3.1
- Renault Trucks RLD-3
- Scania LDF-4
- Volvo VDS-4.5

### Performance

- ACEA E6, E7, E9
- API CK-4, CJ-4, CI-4 Plus, CI-4, CH-4, SN, SM, SL, SJ
- JASO DH-2
- Caterpillar ECF-3
- DAF Extended drain (Euro IV to VI)\*\*
- Ford WSS-M2C213-A1
- Mack EO-O Premium Plus, EO-N, EO-M Plus, EO-M
- MAN M3477\*\*, M3271-1\*\*
- Mercedes Benz MB 228.31
- Renault Trucks RLD-2, RLD, RXD, RGD
- Volvo VDS-4, VDS-3
- Scania Low Ash

### Suitable for use

Delo 400 XSP-SD SAE 5W-30 is suitable for use in applications requiring:

- Iveco 18-1804 TLS E6\*\*\*
- Liebherr LH-00-ENG LA
- Renault Trucks RD-2, RD
- Volvo VDS-2, VDS

° Product approved for DQC IV-18 LA are also approved for use in Deutz TTCD engines

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

\*\* these product claims are obsolete by MAN and no approvals can be obtained, applications that require these claims can be fulfilled by MAN M3677 approved products

\*\*\* check equipment/vehicle manual to ensure that the drain interval of oil is aligned with S content in the fuel used in the engine

| Typical test data  |              |         |
|--|--------------|---------|
| Test   | Test Methods | Results |
| Viscosity Grade  |              | 5W-30   |
| <b>Shelf Life: 60 months from date of filling indicated on the product label</b> |              |         |
| Density at 15°C, kg/l  | ASTM D4052   | 0.858   |
| Kinematic viscosity at 40°C, mm <sup>2</sup> /s                                  | ASTM D445    | 73      |
| Kinematic viscosity at 100°C, mm <sup>2</sup> /s                                 | ASTM D445    | 12.2    |
| Viscosity Index  | ASTM D2270   | 164     |
| Pour point, °C   | ASTM D97     | -42     |
| Flash point COC, °C  | ASTM D92     | 231     |
| Total Base Number, mg KOH/g  | ASTM D2896   | 10      |
| Sulphated Ash, %wt   | ASTM D874    | 0.9     |

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).

**Disclaimer: Data provided in this Product Data Sheet (PDS) is based on standard tests under laboratory conditions and is indicative only. This product should not be used for any purpose other than those expressly set out in this PDS. The user has sole responsibility for verifying that this product is suitable for the user's intended application. Neither Chevron nor its subsidiaries (i) make any warranty or representation as to the accuracy or completeness of this PDS; and/or (ii) accept liability for any loss or damage suffered as a result of the use of this product other than in accordance with the terms of this PDS.**

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](http://www.texacolubricants.com).

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.

A Chevron company product