

# Delo 400 SLK SAE 15W-40

Proven performance heavy-duty diesel engine oil

## Product description

Delo® 400 SLK SAE 15W-40 is a proven performance heavy duty diesel engine oil designed to meet industry and engine manufacturers' performance requirements in on- and off-highway diesel applications.

Delo 400 SLK SAE 15W-40 is based on ISOSYN® technology, which uses advanced low SAPS additives to help provide engine protection for diesel engines meeting Euro I to Euro VI emission requirements\* and for 2017 greenhouse gas (GHG 17) compliant engines in on highway diesel trucks, running on ultra-low sulphur diesel (ULSD).

Delo 400 SLK SAE 15W-40 is formulated for newer engines with selective catalytic reduction (SCR), diesel particulate filter (DPF) and exhaust gas recirculation (EGR) systems.

## Customer benefits

- Designed with proven performance detergent and dispersant additives, offering piston deposit control and turbocharger protection.
- Contributes to soot dispersancy, wear and corrosion protection in cylinders, pistons, rings, and valve train components.
- Backwards compatible with API Oil Service Categories in many naturally aspirated, turbocharged and electronically controlled/low emission engines.
- Formulated for optimum DPF life with minimal downtime and cleaning, helping reduce maintenance costs.



## Product highlights

- **Designed for piston deposit control and turbocharger protection**
- **Offers wear and corrosion resistance**
- **Backwards compatible with API Oil Service Categories**
- **Formulated for optimum DPF life**

### Selected specification standards include:

|                |                  |
|----------------|------------------|
| ACEA           | AGCO Power       |
| API            | Case New-Holland |
| Caterpillar    | Cummins          |
| CLAAS          | Daimler Truck    |
| DAF            | Deutz            |
| Detroit Diesel | Mack             |
| Fendt          | Massey-Ferguson  |
| MAN            | MTU              |
| McCormick      | SAME             |
| Renault Trucks | Valtra           |
| Volvo          | ZF               |

## Applications

Delo 400 SLK SAE 15W-40 is recommended for many naturally aspirated and turbocharged four-stroke diesel engines in which the ACEA E9, E11, API CK-4 grade, and SAE 15W-40 viscosity grade are recommended.

Delo 400 SLK SAE 15W-40 is specifically formulated for on-highway applications, including 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, with or without DPF and EGR systems.

Delo 400 SLK SAE 15W-40 is also recommended for off-highway applications including agricultural equipment. It is formulated for newer engines adapted for the most 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 SLK SAE 15W-40 is suitable for use in stop-and-go vehicles with high soot loading such as buses and waste collection trucks and 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 suitable for use

### Approvals

- Cummins CES 20086
- Daimler Trucks DTFR 15C100 (previously known as MB 228.31)
- Detroit Diesel DFS 93K222
- Deutz DQC III-18 LA
- Mack EOS-4.5
- MAN M3775
- Renault Trucks RLD-3
- Volvo VDS-4.5
- ZF TE-ML 04C (ZF 012112)

### Performance

- ACEA E11, E9
- API CK-4, CJ-4, CI-4 Plus, CI-4, CH-4
- JASO DH-2
- AGCO Power LOCC-G1
- Caterpillar ECF-3
- Cummins CES 20081
- DAF Extended drain (Euro IV to VI)\*
- Mack EO-O Premium Plus, EO-N, EO-M Plus, EO-M
- MTU Oil Category 2.1
- Renault Trucks RLD-2
- Volvo VDS-4, VDS-3

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

### Suitable for use

Suitable for use in tractors and other agricultural machinery from the following manufacturers, which require an engine oil meeting the specifications listed above:

- Case New-Holland
- CLAAS
- Fendt
- Massey-Ferguson
- McCormick
- SAME
- Valtra

| Typical test data  |              |            |
|--|--------------|------------|
| Test   | Test Methods | Results    |
| Viscosity Grade  |              | SAE 15W-40 |
| <b>Shelf Life: 60 months from date of filling indicated on the product label</b> |              |            |
| Density at 15°C, kg/l  | ASTM D4052   | 0.873      |
| Kinematic viscosity at 100°C, mm <sup>2</sup> /s                                 | ASTM D445    | 14.5       |
| Kinematic viscosity at 40°C, mm <sup>2</sup> /s                                  | ASTM D445    | 108        |
| Viscosity Index  | ASTM D2270   | 138        |
| Pour point, °C   | ASTM D97     | -39        |
| Flash point COC, °C  | ASTM D92     | 231        |
| Total Base Number, mg KOH/g  | ASTM D2896   | 9.5        |
| Sulphated Ash, %wt   | ASTM D874    | 1.0        |

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.**

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.

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 <http://europe.chevronlubricants.com>.

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