Delo 400 LE Synthetic SAE 5W-40

Premium performance synthetic heavy duty diesel engine oil

Product description

Delo® 400 LE Synthetic SAE 5W-40 is a premium performance synthetic heavy duty diesel engine oil designed for a wide range of diesel engines operating in on-highway and off-highway applications.

Formulated with advanced low SAPS additive technology, Delo 400 LE Synthetic SAE 5W-40 is designed to help protect modern low emission engines running ULSD equipped with Selective Catalytic Reduction (SCR), Diesel Particulate Filter (DPF) and Exhaust Gas Recirculation (EGR) systems.

Customer benefits

- Advanced low SAPS formulation helps reduce emissions and protect exhaust after-treatment systems, supporting extended DPF service life
- Robust wear protection and low temperature fluidity helps reduce component wear and contributes to extended engine service life
- Effective soot dispersancy and deposit control technology helps maintain engine cleanliness and reliable operation, reducing maintenance downtime
- Suitable for mixed fleets, helping reduce lubricant inventory requirements and minimise the risk of product misapplication
- Synthetic base oil technology offers wide temperature operating capability and dependable engine protection in demanding conditions

Product highlights

- **Advanced low SAPS technology supports modern low emissions engines**
- **Supports DPF, SCR and EGR system protection**
- **Promotes engine cleanliness and wear protection**
- **Helps reduce maintenance downtime across mixed fleets**
- **Supports cold temperature start-up protection**

Selected specification standards include:

ACEA	API
Allison	Caterpillar
Cummins	DAF
Daimler Truck	Detroit Diesel
Mack	MTU
Renault Trucks	Volvo

Applications

Delo 400 LE Synthetic SAE 5W-40 is an engine oil recommended for

- mixed fleets of diesel engines (naturally aspirated and turbocharged four-stroke diesel engines),
- commercial road transport including engines fitted with exhaust clean-up devices of all types
- stop-and-go vehicles in high soot loading services such as off-road trucks, buses and waste collection trucks

Delo 400 LE Synthetic SAE 5W-40 is specifically formulated for both old and new vehicles including vehicles meeting the emissions standards US EPA 2002 & 2007 and euro IV, V & VI.

Approvals, performance and suitable for use

Approval

• Daimler Truck	DTFR 15C100 (previously MB 228.31)
• Mack	EOS-4.5
• Renault Trucks	RLD-3
• Volvo	VDS-4.5

Performance

• ACEA	E7, E11
• API	CK-4 / CJ-4 / CI-4 / CH-4 / SN / SM / SL / SJ
• Allison	TES 439
• Caterpillar	ECF-3
• Cummins	CES 20086, CES 20081
• DAF	Standard drain (Euro 0 to VI)
• Detroit Diesel	DFS 93K222, DFS 93K18
• Mack	EO-O Premium Plus EO-N Premium Plus, EO-M Plus, EO-M, EO-N
• MTU	Oil Category 2.1
• Renault Trucks	RLD-2, RLD
• Volvo	VDS-3

Suitable for use

• Renault Trucks	RD-2, RD
• Volvo	VDS-2, VDS

Typical test data

Test	Test Methods	Results
Viscosity Grade		**SAE 5W-40**
Shelf Life: 60 months from date of filling indicated on the product label		
Density at 15°C, kg/l	ASTM D4052	0.856
Kinematic viscosity at 100°C, mm^2/s	ASTM D445	14.4
Kinematic viscosity at 40°C, mm^2/s	ASTM D445	88.7
Viscosity Index	ASTM D2270	169
Pour point, °C	ASTM D97	-42
Flash point COC, °C	ASTM D92	222
Total Base Number, mg KOH/g	ASTM D2896	11
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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