



Delo® 400 Multigrade

High performance heavy-duty diesel engine lubricant

Product Data Sheet

Product description

Delo 400 SAE 15W-40 is a high performance heavy-duty diesel engine lubricant formulated with advanced ISOSYN® technology and specifically designed for a wide range of diesel and gasoline engines requiring an API CI-4 PLUS, CI-4, SL, ACEA E7 or JASO DH-1 performance lubricant.

Designed for use in severe operating conditions, Delo 400 is suitable for use in electronically controlled diesel engines utilising EGR and SCR exhaust after treatment systems, and where high soot loadings require exceptional soot dispersancy, harmful sludge and deposit control and increased wear protection.

Customer benefits

- Advanced ISOSYN® base oil and additive technologies optimise soot dispersancy, deposit control and wear protection
- High performance deposit control keeps valves and piston crownlands clean, and reduces oil consumption
- Oxidation stability and soot control resist oil thickening, filter plugging, extending oil drain capabilities and uptime
- Anti-wear additives increase valve train protection and improve fuel economy
- Optimised wear protection resists valve train wear and component scuffing under high loads
- Wide mixed fleet applications including electronically controlled and low emission diesel engine technologies

Applications

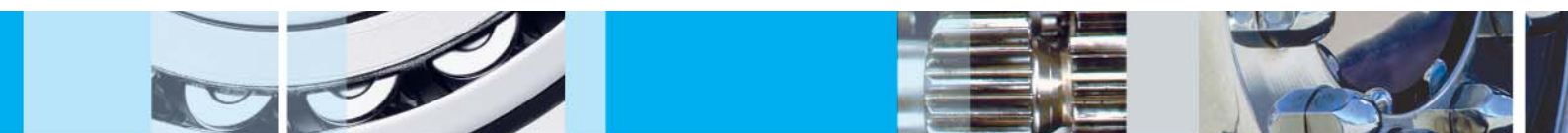
- Mixed fleets of European, North American and/or Japanese diesel engines (high speed, four-stroke, turbocharged or naturally aspirated)
- Mixed fleets of both diesel and gasoline engines
- Mixed fleets including both old and new equipment

Product highlights:

- Advanced ISOSYN® protection
- Excellent soot control
- Optimised keep-clean performance
- Wide mixed fleet application
- Selected specification standards include:
 - API
 - ACEA
 - EMA Global
 - JASO
 - US Military
 - Caterpillar
 - Cummins
 - Daimler
 - DDC
 - Mack
 - MAN
 - Renault
 - Volvo

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Global Lubricants

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- Commercial road transport, including electronically controlled engines and those designed to meet Euro 3 emissions standards
 - Also for Euro 4 compliant vehicles, except those units fitted with diesel particulate filters and requiring ACEA E6 or ACEA E9 oils
 - For electronically controlled diesel engines, including those fitted with EGR and/or SCR systems, experiencing high soot loading
 - Stop-and-go vehicles in high soot loading service such as buses and waste collection trucks
 - Off-highway vehicles and plant
 - Agricultural tractors and farm machinery
 - Generator sets
 - Mobile hydraulic systems (where oil type and viscosity are appropriate)

Approvals and performance specifications

Performance specifications

- API CI-4 Plus, CI-4, CH-4, CG-4, CF SL, SJ, SH
- ACEA E7-04, E5-02, E3-96#4
- EMA Global DHD-1
- JASO DH-1
- US Military MIL-L-2104F
- Caterpillar ECF-1
- Cummins CES 20078, 20077, 20076
- Daimler MB 228.3
- DDC 93K214
DDC/MTU Categories 1&2
- Mack EO-N Premium Plus
- MAN M 3275
- Renault RLD-2, RLD
- Volvo VDS-3, VDS-2



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continued

Typical test data

DELO 400 MULTIGRADE TEST	TEST METHODS	RESULTS
Viscosity Grade		15W-40
Product Code		500499
Density, 15 °C, kg/l	ASTM D4052	0.88
Kinematic viscosity, 100 °C, mm ² /s	ASTM D445	15.1
Total Base Number, mg KOH/g	ASTM 2896	12.2
Elemental Analysis		
- Zinc, %wt	X-Ray/ICP	0.15
- Calcium, %wt	X-Ray/ICP	0.35

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.

Disclaimer Chevron accepts no liability for any loss or damage suffered as a result of using this product for any application other than applications specifically stated in any Product Data Sheet's.

Health, safety, storage and environmental Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS's are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

For more information, go to www.chevronlubricants.com