

**DELO® 400
MULTIGRADE****SAE 15W-40**

"Universal Diesel Engine Oil"

PRODUCT CODE

2696

PACK SIZES

205L, 20L, 5L, 1L

DESCRIPTION

Premium performance, multigrade, heavy-duty diesel engine oil specifically designed to lubricate a wide range of diesel and gasoline engines requiring API CI-4 PLUS, CI-4, SL, ACEA E7 or JASO DH-1 performance lubricants operating under the most severe service conditions. Specifically designed for the latest electronically controlled diesel engines, including those fitted with EGR and/or SCR systems. Formulated with ISOSYN™ technology to provide exceptional soot dispersancy, deposit control and wear protection.

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.
- Commercial road transport, including the latest electronic controlled engines and those designed to meet Euro 3 emissions standards. Also for Euro 4 and 5 compliant vehicles, except those units fitted with diesel particulate filters and requiring ACEA E6 or E9 oils.
- 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).

For engines fitted with diesel particulate filters, Delo 400 LE or Delo XLE Multigrade should be selected in accordance with manufacturers recommendations.

BENEFITS**Minimises fleet maintenance costs**

Exceptional soot dispersancy keeps fuel soot in suspension, avoiding filter plugging, cylinder head sludge, abrasive polishing wear and oil thickening.

Reduces inventory costs

"Universal" formulation provides excellent overall performance in mixed fleets of different engine designs, (including modern electronically controlled/low emission diesel engines) allowing one oil for all services and reducing the chance of problems arising through product misapplication.

Minimises fleet operating costs

Excellent deposit control on valves and piston crownlands reduces oil consumption. Exceptional oxidation stability and soot control extends oil drain capability so that equipment is in service longer generating revenue. Outstanding valve train wear protection maintains fuel economy.

Extends engine life to overhaul

High level of anti-wear additive protects against valve train wear and scuffing of highly loaded parts operating under boundary lubrication conditions.

PERFORMANCE STANDARDS

- ACEA E7-08, E5-02, E3-96
- API CI-4 PLUS, CI-4, CH-4
- API SL, SJ
- Caterpillar ECF-2, ECF-1a
- Cummins CES 20078, 20077
- DDC 93K214
- EMA Global DHD-1
- JASO DH-1
- Mack EO-N Premium Plus 03
- Mercedes Benz 228.3
- Volvo VDS-3

Planned Approval:

- MAN M 3275
- MTU Category 1&2
- Renault RLD-2
- ZF TE-ML 04C, 07C

Meets the requirements of:

- API CG-4, CF-4, CF, CD
- Cummins CES 20076, 20072
- Mack EO-M Plus, EO-M

SERVICE CONSIDERATIONS

For vehicles fitted with diesel particulate filters (DPFs), Delo 400 LE or Delo XLE Multigrade should be selected in accordance with the manufacturer's recommendations. The use of these low SAPS (sulfated ash, phosphorus and sulfur) products will maximise intervals between filter cleaning. While modest by typical heavy duty diesel standards, Delo 400 Multigrade has a level of phosphorus higher than permitted by certain recent standards for passenger car motor oils, e.g. ILSAC GF-5, and the ACEA "C" standards. Optimum life of catalytic emission control systems will be achieved by using oils of the performance standard recommended by the vehicle manufacturer. This product is not recommended for motorcycle engines.