

DELO® 400 LE**SAE 15W-40**

Low SAPS
Diesel Engine Oil

PRODUCT CODE

3006

PACK SIZES

205L, 20L

DESCRIPTION

Premium performance, "low-SAPS" heavy-duty diesel engine oil specifically designed to lubricate a wide range of high speed diesel engines requiring API CJ-4, CI-4 PLUS, SM, or ACEA E9 performance lubricants operating under the most severe service conditions. Specifically designed for the latest low emission diesel engines fitted with diesel particulate filters, but also those fitted with EGR and/or SCR systems. Formulated with ISOSYN® base oils and the latest low-ash additive technology to provide exceptional soot dispersancy, deposit control and wear protection.

APPLICATIONS

- Mixed fleets of European, North American and/or Japanese diesel engines.
- Commercial road transport, including the latest engines fitted with exhaust cleanup devices of all types.
- Vehicles meeting the most recent exhaust emissions standards, including US EPA 2002 and 2007, Euro III and IV, and Australian ADR 80/01.
- Mixed fleets of both diesel and gasoline engines, and both old and new equipment.
- Stop-and-go vehicles in high soot loading service such as buses and waste collection trucks.
- Most diesel engined light duty vehicles.
- Off-highway vehicles and plant.
- Many heavy duty gas-fuelled vehicles.
- Mobile hydraulic systems (where oil type and viscosity are appropriate).

BENEFITS**Minimises fleet maintenance costs**

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

Reduced emissions

Formulated with latest generation "low-SAPS" (sulfated ash, phosphorus and sulfur) technology containing reduced levels of metals, phosphorus and sulfur, it maximises the life of sensitive catalyst metals and the cleaning intervals of diesel particulate filters.

Minimises fleet operating costs

Excellent deposit control on valves and piston crownlands reduces oil consumption. Exceptional oxidation stability and soot control provides extended oil drain capability so that equipment is in service longer generating revenue.

Reduces inventory costs

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

PERFORMANCE STANDARDS

- ACEA E9-08, E7-08, E5-02, E3-96
- API CJ-4, CI-4 PLUS, CI-4, CH-4, CF/SM
- Caterpillar ECF-3, ECF-2
- DDC 93K218
- JASO DH-2
- Volvo VDS-4

Planned Approvals:

- Cummins CES 20081
- Mack EO-O Premium Plus 07
- Mercedes Benz 228.31
- MAN M3275
- MTU Category 2.1
- Renault RLD-3

SERVICE CONSIDERATIONS

"Low SAPS" engine oils tend to have lower Base Numbers than "conventional" heavy duty diesel engine oils. Used in conjunction with today's low, very low or ultra low sulfur content fuels this is of no consequence. However In situations where very high sulfur (>0.5%) fuels are in use this may to some extent limit achievable drain intervals of the former in relation to the latter. Such fuels are now rare in the Asia Pacific Region.

While the level of phosphorus is low by heavy duty diesel engine oil standards, it is somewhat 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.