



## Delo<sup>®</sup> 400 Multigrade

### “Universal” Diesel Engine Oil

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, experiencing high soot loading. Formulated with ISOSYN™ base oils and the latest additive 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
- 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)

#### PERFORMANCE STANDARDS

- API CI-4 PLUS, CI-4, CH-4, CG-4, CF-4, CF, CD
- API SL, SJ, SH
- ACEA E7-04, E5-02, E3-96.
- JASO DH-1
- EMA Global DHD-1
- Caterpillar ECF-1
- Cummins CES 20078, 20077, 20076, 20072
- DDC 93K214
- Mack EO-N Premium Plus 03, EO-M Plus, EO-M, EO-L Plus
- Volvo VDS-3, VDS-2
- Mercedes-Benz 228.3
- MAN M 3275, 271
- MTU and DDC Categories 1&2

#### BENEFITS

- ✦ **Minimizes fleet maintenance costs**  
Exceptional soot dispersancy keeps fuel soot in suspension, avoiding filter plugging, cylinder head sludge, abrasive polishing wear and oil thickening.
- ✦ **Minimizes 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.
- ✦ **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.

#### ENVIRONMENT, HEALTH and SAFETY

Information is available on this product in the Caltex Material Safety Data Sheet (MSDS) and Caltex Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit [www.caltexoils.com](http://www.caltexoils.com).

#### KEY PROPERTIES

SAE Grade	15W-40
Base No.,	
D2896, mg KOH/g	12.2
D4739, mg KOH/g	10.0
Sulfated Ash, m %	1.4
Viscosity,	
mm <sup>2</sup> /s @ 40°C	125
mm <sup>2</sup> /s @ 100°C	15.1
Viscosity Index	125
Zinc, m %	0.15

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This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended.

Produced by ChevronTexaco Global Lubricants

