



High performance, multigrade, heavy-duty diesel engine oil specifically designed to lubricate a wide range of engines requiring API CI-4 or ACEA E7 performance lubricants including those fitted with EGR and/or SCR systems. Formulated with ISOSYN[®] technology.

APPLICATIONS

- Mixed fleets of diesel engines (high speed, four-stroke, turbocharged or naturally aspirated).
- Four-stroke gasoline engines in mixed fleets.
- Commercial road transport.
- Off-highway vehicles and plant.
- Agricultural tractors and farm machinery.
- High speed diesel engines in marine service (e.g., fishing, river transport, etc.).
- Generator sets.
- Mobile hydraulic systems (where oil type and viscosity are appropriate).

BENEFITS

- **Reduces maintenance costs**
ISOSYN[®] technology, including a combination of hydrocracked base fluids and carefully balanced metallic detergent and ashless dispersant additive system, provides overall engine cleanliness in all service conditions. ISOSYN[®] technology also confers the high degree of soot dispersancy required to maintain oil drain intervals in modern engine designs. Effective oxidation stability protects against the formation of gums and varnish at elevated temperatures.
- **Prolongs engine life**
Efficient dispersant combination plus proven metallo-organic anti-wear additive system provides protection against wear of critically loaded components under all operating conditions. Multigrade viscosity provides additional protection against wear at start-up and under high temperature operating conditions.
- **Preserves full power and performance**
Metallic detergent additive system preserves power and performance by providing excellent upper-ring-belt deposit control under the high temperatures encountered in turbocharged diesel engines.
- **Extends oil and filter service intervals**
Effective antioxidant system inhibits the formation of sludge forming materials which can lead to premature oil thickening and filter plugging. Effective dispersant system further assists by keeping insoluble contaminants finely suspended in the oil, minimizing their ability to block oil filters.



PERFORMANCE STANDARDS

API	CI-4, CH-4, CF-4*, CF*, CD*, SL
ACEA	E7-08, E5-02*
ACEA, API, JASO	DHD-1
Caterpillar	ECF-1a
Cummins	CES 20078, 20077, 20076, 20072*, 20071*
Daimler	MB Approval 228.3
JASO	DH-1*
Mack	EO-N Premium Plus, EO-M Plus [#]
MAN	M 3275-1
DDC/MTU	Category 2
Renault	RLD-2
Volvo	VDS-3

* Meets the requirements of # Planned approval

TYPICAL CHARACTERISTICS

Product Code	3159
SAE Grade	15W-40
Density at 15°C, kg/L	0.89
Base No., D2896 mg KOH/g	10.2
Flash Point, °C	> 215
Phosphorus, m%	0.11
Pour Point, °C	< -24
Sulfated Ash, m%	1.4
Viscosity, cSt at 40°C	115
Viscosity, cSt at 100°C	15.1
Viscosity Index	137



PACK SIZES

1000L, 205L, 5L

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 Gold Ultra 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.

ENVIRONMENT, HEALTH AND SAFETY

Users should consult the MSDS, follow the precautions outlined and comply with all laws and regulations concerning its use and disposal. Used packaging material should not be incinerated or exposed to flame. After use, protect your environment. Do not pollute drains, soil or water with used product.

OTHER INFORMATION

For further information on Caltex products and services call the Lubelink Advisory Service on 1300 364 169 between 8.00am and 6.00pm (EST) Monday to Friday.

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