



Delo[®] Gold

Multifunctional Diesel & Gasoline Engine Oil

High performance, monograde, heavy-duty diesel engine oil specially designed to lubricate diesel and gasoline engines requiring ACEA E2, API CF or SJ performance lubricants.

APPLICATIONS

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

PERFORMANCE STANDARDS

- API CF/SJ (except SAE 10W), API CD/SG
- ACEA E2-96 Issue 4 (SAE 30, 40, 50)
- CCMC D4, D2, PD1
- CCMC G2 (except SAE 10W)
- DDC/MTU Category 1 (SAE 30, 40)
- Japanese CD (SAE 30, 40, 50)
- JASO DH-1 Engine Tests (SAE 40, 50)
- Mercedes-Benz 228.0 (SAE 30, 40)
- Mack EO-k/2 (SAE 30, 40)
- MAN 270 (SAE 30, 40)
- MIL-L-2104F (SAE 30, 40, 50)
- MIL-L-46152D (SAE 10W, 30, 50)
- SABS 1516/17
- ZF TE-ML 03B (SAE 10W)

KEY PROPERTIES

SAE Grade	10W	20	30	40	50
Base No.,					
D2896, mg KOH/g	10.8	10.8	10.8	10.8	10.8
D4739, mg KOH/g	9.7	9.7	9.7	9.7	9.7
Sulfated Ash, m %	1.5	1.5	1.5	1.5	1.5
Viscosity,					
mm ² /s @ 40°C	41.9	63.0	101.5	142	222
mm ² /s @ 100°C	6.5	8.4	11.5	14.4	19.1
Viscosity Index	105	103	100	99	97
Zinc, m %	0.13	0.13	0.13	0.13	0.13

BENEFITS

- ★ **Reduces fleet maintenance costs**
Specially balanced metallic detergent and ashless dispersant additive system provides excellent overall engine cleanliness in all service conditions, particularly the higher soot dispersancy required to maintain oil drain intervals in modern engine designs. Excellent oxidation stability protects against the formation of gums and varnish at elevated temperatures.
- ★ **Prolongs engine life**
Proven metallo-organic anti-wear additive system provides excellent protection against wear of critically loaded components under all operating conditions.
- ★ **Preserves full power and performance**
Metallic detergent and ashless dispersant additive system preserves full power and performance by providing excellent upper-ring-belt deposit control under the high temperatures encountered in turbocharged diesel engines.
- ★ **Saves on inventory costs**
Mid-ash, higher dispersancy formulation provides excellent overall performance in mixed fleets of different engine designs, allowing fewer oils to be stored 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.

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.

