



Delo[®] Gold (ISOSYN[™]) Multigrade

Multifunctional Diesel & Gasoline Engine Oil

High performance, multigrade, heavy-duty diesel engine oil specifically designed to lubricate a wide range of diesel and gasoline engines requiring API CH-4, CF or SL performance lubricants. Formulated with ISOSYN[™] technology.



APPLICATIONS

- Mixed fleets of diesel engines (high speed, four-stroke, turbocharged or naturally aspirated)
- Mixed fleets of both diesel and gasoline engines
- 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)

PERFORMANCE STANDARDS

- API CH-4, CG-4, CF-4, CF, CD
- API SL
- Caterpillar ECF-1

SAE 15W-40

- ACEA E3-96
- CCMC D4, D2, PD2, PD1, G4
- JASO DH-1 Engine Tests
- Allison C-4
(Approval No. C4-32904103)
- Cummins CES 20071, 72
- Mercedes-Benz 228.3
- MAN 271
- Volvo VDS-2
- MTU Category 2 (Pending)
- Mack EO-M, EO-L

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.

A ChevronTexaco Product

BENEFITS

- ✦ **Reduces fleet maintenance costs**
ISOSYN[™] technology, including a combination of high performance hydrocracked base fluids and specially balanced metallic detergent and ashless dispersant additive system, provides excellent 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. Exceptional oxidation stability protects against the formation of gums and varnish at elevated temperatures.
- ✦ **Prolongs engine life**
High efficiency dispersant combination plus proven metallo-organic anti-wear additive system provides excellent 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**
Outstanding metallic detergent 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.

KEY PROPERTIES

SAE Grade	10W-30	15W-40
Base No.,		
D2896, mg KOH/g	9.1	9.5
D4739, mg KOH/g	8.6	9.0
Sulfated Ash, m %	1.2	1.3
Viscosity,		
mm ² /s @ 40°C	73.8	115
mm ² /s @ 100°C	11.5	15.1
Viscosity Index	149	137
Zinc, m %	0.17	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 Solutions.

