



Delo® Gold Ultra SAE 15W-40

High performance heavy duty diesel engine lubricant

Product Data Sheet

Product description

Delo® Gold Ultra is a 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. Delo Gold Ultra is formulated with ISOSYN® technology.

Customer benefits

- **Reduces maintenance costs** – ISOSYN® technology, including a combination of high performance hydrocracked base fluids and carefully 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. Highly effective 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.
- **Extends oil and filter service intervals** – Highly effective antioxidant system inhibits the formation of sludge forming materials which can lead to premature oil thickening and filter plugging. Very effective dispersant system further assists by keeping insoluble contaminants finely suspended in the oil, minimizing their ability to block oil filters.

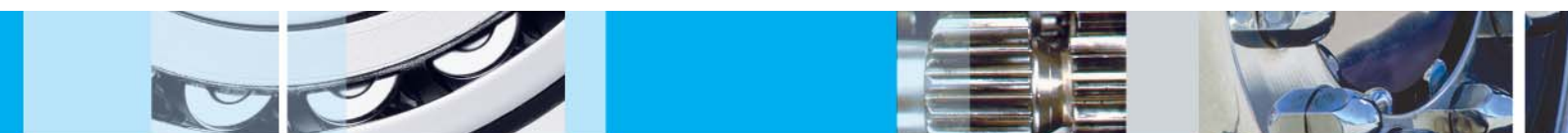
Applications

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

Product highlights:

- Increased uptime
- Reduced maintenance downtime
- Extended engine life
- High temperature protection
- Maintains power and performance
- Selected specification standards include:
 - ACEA E7
 - API CI-4/SL
 - Daimler MB-Approval 228.3
 - JASO DH-1
 - Mack EO-N Premium Plus
 - MAN M 3725-1
 - Renault RLD-2
 - Volvo VDS-3
 - Caterpillar ECF-1-a
 - Advanced ISOSYN protection
 - Provides Extended Service Protection
 - Wide mixed fleet application

A Chevron company product

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- Commercial road transport
 - Off-highway vehicles and plant
 - Agricultural tractors and farm machinery
 - High speed diesel engines in marine service (e.g., fishing boat, river transport)
 - Generator sets
 - Mobile hydraulic systems (where oil type and viscosity are appropriate)

Performance Standards

- API CI-4, CH-4/SL
- ACEA E7
- Volvo VDS-3
- Renault RLD-2
- Mack EO-N Premium Plus
- Daimler MB Approval 228.3
- MAN M 3275-1
- DDC / MTU Category 2
- Cummins CES 20078 / 77 / 76

Meets the requirements of

- API CF-4, CF, CD
- ACEA E5-02
- Cummins CES 20072 / 71
- Global DHD-1
- JASO DH-1
- Caterpillar ECF-1-a

Planned Approvals

- Mack EO-M Plus

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 maximize 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.



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continued

Allison C4 is an obsolete oil specification for transmissions. Allison Transmission is no longer accepting any applications for C4 approval. Based on available data and technical judgment, Delo Gold Ultra SAE 15W-40 would likely pass the requirements of the obsolete C4 specification.

Fluids meeting the Allison C4 specification are suitable for use by customers with older off-highway equipment for which Allison C4 was the original oil recommendation. Newer off-highway equipment should use an Allison-approved oil meeting the TES-439 specification.

This product is not recommended for motorcycle engines.

Typical test data

DELO GOLD ULTRA SAE 15W-40 TEST	RESULTS
SAE Grade	15W-40
Product Code	500574
Base No., D2896, mg KOH/g	10.2
Phosphorus, m %	0.11
Sulfated Ash, m %	1.4
Viscosity, mm ² /s @ 40°C	115
Viscosity, mm ² /s @ 100°C	15.1
Viscosity Index	137
Zinc, m %	0.12

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 Chevron Lubricants; Africa, Middle East and Pakistan.

Environment, Health and Safety Information is available on this product in the Material Safety Data Sheet (MSDS) and 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.

For more information, go to www.chevronlubricants.com