



Delo[®] 400 LE SAE 10W-30 Heavy Duty Motor Oil



DELO DELIVERS CONFIDENCE™

Delo[®]

www.DeloPerformance.com



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CVDL30BR_1-10



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PRODUCT DESCRIPTION

The Delo® Performance Advantage™

Delo® 400 LE SAE 10W-30 is a mixed fleet motor oil recommended for naturally aspirated and turbocharged four-stroke diesel engines and four-stroke gasoline engines in which the API CJ-4 service category and SAE 10W-30 viscosity grade are recommended.

Delo® 400 LE SAE 10W-30 is an API CJ-4 heavy duty engine oil specifically formulated for 2007 Exhaust Gas Recirculation (EGR) with Diesel Particulate Filter (DPF) and 2010 EGR with DPF and EGR/Selective Catalyst Reduction (SCR) with DPF low emission engines. It is fully compatible with previous engine models and previous API Oil Service Categories. It delivers value through:

- **Minimized operating costs** — Exceptional soot dispersancy and wear control. Cylinders, pistons, rings, and injectors are well protected against wear and corrosion, providing optimum service life and minimal maintenance. Contributes to maximum vehicle utilization and minimal downtime.
- **Excellent emission control system life** — Provides optimum Diesel Particulate Filter (DPF) life for minimal downtime and cleaning, thus managing your maintenance costs.
- **Managed inventory costs** — Backwards compatible with all previous API Oil Service Categories and engine models. Suitable for use in four-stroke gasoline and naturally aspirated turbocharged and modern electronically controlled/low emission diesel engines calling for an SAE 10W-30 heavy duty motor oil. Allows users with a wide mix of engine brands to enjoy simplified inventory and dispensing systems that may contribute to saving money, space and handling time.
- **Warranty Plus protection** — Bumper-to-bumper warranty protection from the engine to the drive train. Payment for Chevron lubricant-related damage to your equipment, including parts and labor.¹ Problem resolution and technical advice from Chevron's lubrication experts.
- **Access to Chevron's lubrication and industry knowledge** — Helps maximize your bottom line business results.

¹See Warranty Plus for details and restrictions.

FEATURES

Delo 400 LE SAE 10W-30 is an industry leading, super premium quality engine oil that exceeds industry and engine manufacturers' performance requirements and delivers maximum fuel economy; up to 1.3% over an SAE 15W-40 engine oil.



It is formulated using the most advanced additive technology available to provide outstanding engine protection for 2007 EPA exhaust particulate emissions standards for on-highway diesel trucks, using Ultra Low Sulfur Diesel (ULSD).

Delo 400 LE SAE 10W-30, formulated with ISOSYN® Technology rivals synthetics in critical performance tests, and contains an optimal blend of the latest technology in dispersant, detergent, oxidation inhibition, antiwear, corrosion inhibition, viscosity improver, and defoaming additives.

Today, Delo 400 LE SAE 10W-30 meets the most stringent EGR soot control and particulate requirements.

Delo 400 LE SAE 10W-30 has been specifically designed to meet the demands of EGR engines while at the same time providing the highest level of performance in conventional engines and other engine technologies like Caterpillar ACERT™.

FUNCTIONS

Delo 400 LE SAE 10W-30 helps to keep rings clean and free for better combustion pressure and to provide minimal wear. Delo 400 LE SAE 10W-30 minimizes valve and piston crown land deposits, thus managing oil consumption. Its high level of ashless dispersants keeps fuel soot in suspension and thus helps avoid filter plugging, heavy cylinder head sludge, abrasive polishing wear, high viscosity increase, and oil gelling. These problems can result in excessive engine wear and bearing failure on startup, without prior indication to the operator.

Specially selected oxidation inhibitors control oxidation, sludge, and undue thickening during oil drain periods. Delo 400 LE SAE 10W-30's unique blend of extreme pressure antiwear additive



protects against valve train wear and scuffing of highly loaded parts operating under boundary lubrication. A specially selected viscosity index improver ensures easy flow at low temperatures and excellent film protection in hot engine areas. A defoaming additive prevents air entrapment.

The combination of premium dispersant additives and ISOSYN® Technology allows Delo 400 LE SAE 10W-30 to effectively disperse soot and keep it in suspension. This minimizes the risk of valve train wear, lever polishing, and filter plugging

APPLICATIONS

Delo 400 LE SAE 10W-30 is a mixed fleet motor oil recommended for naturally aspirated and turbocharged four-stroke diesel engines and four-stroke gasoline engines in which the API CJ-4 service category and SAE 10W-30 viscosity grade are recommended. It is formulated for engines operating under severe service and a wide range of climatic conditions.

Delo 400 LE SAE 10W-30 is excellent for use in new advanced engines developed in response to 2007 emissions standards and in engines equipped with features like four-valve heads, supercharging, turbocharging, direct injection, shorter piston crowns, higher power density, intercooling, full electronic management of fuel and emissions systems, exhaust gas recirculation, and exhaust particulate traps.

It is formulated for exceptional performance with Ultra Low Sulfur Diesel but also with both normal and low sulfur diesel fuels.

This product is recommended for use in older engines, as well as in today's most modern low emission designs.

This product is recommended for use in Caterpillar engines in off-highway or construction applications which require an API CJ-4 Service Category after January 1, 2007.

Delo 400 LE SAE 10W-30 is approved for:

- **API Service Categories** CJ-4, CI-4 PLUS, CI-4, CH-4, SM, SL
- **Major diesel engine manufacturers' requirements**
 - Cummins CES 20081, 20071
 - Volvo VDS-4

Delo 400 LE SAE 10W-30 meets the performance requirements of:

- **Major diesel engine manufacturers' requirements**
 - Caterpillar ECF-3, ECF-2



TYPICAL TEST DATA

SAE Grade	10W-30
Product Number	222210
MSDS Number	23004
API Gravity	31
Viscosity, Kinematic cSt at 40°C cSt at 100°C	80/12.0
Viscosity, Cold Crank, C/Poise	-25/64
Viscosity Index	145
Flash Point, °C(°F)	204 (399 min.)
Pour Point, °C(°F)	-27 (-17 max.)
Sulfated Ash, wt %	1.0
Base Number, ASTM D 2896	8.7
Phosphorus, wt %	0.11
Sulfur, wt %	0.34
Zinc, wt %	0.12

Typical test data are average values only. Minor variations which do not affect product performance are to be expected in normal manufacturing.

Always confirm that the Chevron product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.



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