



# DELO<sup>®</sup> 400 LE

## SAE 10W-30 with Synthetic Blend Formulation

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### PRODUCT DESCRIPTION

“Delo. Let’s go further.<sup>™</sup>”

Delo<sup>®</sup> 400 LE SAE 10W-30 with synthetic blend formulation 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 or SM service category and SAE 10W-30 viscosity grade are recommended.

### CUSTOMER BENEFITS

Delo 400 LE SAE 10W-30 with synthetic blend formulation is an API CJ-4 heavy duty engine oil specifically formulated for on highway applications including 2010 compliant low emission diesel engines with Selective Catalytic Reduction (SCR), Diesel Particulate Filter (DPF) and Exhaust Gas Recirculation (EGR) calling for a SAE 10W-30 heavy duty motor oil.

Delo 400 LE SAE 10W-30 with synthetic blend formulation is also recommended for off-highway applications and is formulated for newer 2014 engines with Selective Catalytic Reduction (SCR), Diesel Particulate Filter (DPF) and Exhaust Gas Recirculation (EGR) calling for a SAE 10W-30 heavy duty motor oil.

It is fully compatible with previous engine models and previous API Oil Service Categories.

Delo 400 LE SAE 10W-30 with synthetic blend formulation delivers value through:

- **Improved fuel economy** — Up to 1% improvement vs. SAE 15W-40 oils.
- **Better Low Temperature Pumpability** — Than comparable SAE 15W-40 oils.

- **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 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.<sup>1</sup> Problem resolution and technical advice from Chevron’s lubrication experts.
- **Access to Chevron’s lubrication and industry knowledge** — Help maximize your bottom line business results.

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<sup>1</sup> See Warranty Plus for details and restrictions.

Product(s) manufactured in the USA.

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

A **Chevron** company product

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## FEATURES

Delo® 400 LE SAE 10W-30 with synthetic blend formulation is an industry leading, super premium quality engine oil which exceeds industry and engine manufacturers' performance requirements and delivers fuel economy of up to 1% over an SAE 15W-40 engine oil.



It is formulated using advanced additive technology to provide outstanding protection for on highway applications including 2010 compliant engines of on highway diesel trucks burning ultra low sulfur diesel (ULSD). Delo 400 LE SAE 10W-30 with synthetic blend formulation is formulated with ISOSYN® Technology 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 with synthetic blend formulation meets the most stringent EGR soot control and particulate requirements.

It 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 with synthetic blend formulation helps to keep rings clean and free for maximum combustion pressure and to provide minimal wear. It 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 to 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. Its 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 protects against air entrapment.

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

## APPLICATIONS

Delo 400 LE SAE 10W-30 with synthetic blend formulation 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.

It is excellent for use in new advanced engines developed to meet the latest emissions and reliability standards and in engines equipped with features like four-valve heads, super-charging, turbo-charging, direct injection, higher power density, intercooling, full electronic management of fuel and emissions systems, exhaust selective catalytic reduction, exhaust gas recirculation, and exhaust particulate filters.

Delo 400 LE SAE 10W-30 with synthetic blend formulation is formulated for exceptional performance with ultra low sulfur diesel (ULSD) and other low sulfur diesel fuels.

This product is recommended for use in:

- Today's most modern on highway low emission designs as well as in older engines.
- Today's most modern off highway engines where an SAE 10W-30 viscosity grade is recommended including those adapted for future emissions standards in construction, agriculture, marine, and mining applications.

### **Delo 400 LE SAE 10W-30 with Synthetic Blend Formulation is approved for:**

- **API Service Categories** CJ-4, CI-4 PLUS, CI-4, CH-4, SM
- **Cummins** CES 20081
- **Volvo** VDS-4
- **Renault Trucks (Volvo)** VI RLD-3
- **Mack Trucks (Volvo)** EO-O Premium Plus

### **Delo 400 LE SAE 10W-30 with Synthetic Blend Formulation meets the requirements of:**

- **Caterpillar** ECF-3, ECF-2

## TYPICAL TEST DATA

<b>SAE Grade</b>	<b>10W-30</b>
<i>Product Number</i>	222210
<i>MSDS Number</i>	23004
Density @ 15°C, kg/L	0.8703
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 D2896	8.7
Phosphorus, wt %	0.11
Sulfur, wt %	0.34
Zinc, wt %	0.12

Minor variations in product typical test data are to be expected in normal manufacturing.

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