



# DELO<sup>®</sup> 400 SD ISOCLEAN<sup>®</sup> CERTIFIED LUBRICANT SAE 15W-30

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## PRODUCT DESCRIPTION

"Delo. Let's go further.<sup>®</sup>"

Delo<sup>®</sup> 400 SD SAE 15W-30 is a premium and innovative diesel engine oil intended for engines that have duty cycles which qualify as "severe duty." These include reducing idling time by turning the engine off at stops or deliveries, stop and go in heavy traffic or city delivery, or situations where engine cooling may be stressed like when towing heavy loads or when cycling between fully loaded and unloaded in off road applications.

Chevron ISOCLEAN<sup>®</sup> Certified Lubricants have been certified to meet specified ISO Cleanliness standards at point of delivery using industry leading filtration and testing technology. ISOCLEAN Certified products are the first step for contamination control and maximizing component life.



## CUSTOMER BENEFITS

Delo 400 SD SAE 15W-30 ISOCLEAN Certified Lubricant is an API CJ-4 heavy duty engine oil specifically formulated for severe duty in on and off highway applications including 2010 and Tier 4 compliant low emission diesel engines with Selective Catalytic Reduction (SCR), Diesel Particulate Filter (DPF) and Exhaust Gas Recirculation (EGR).

Delo 400 SD SAE 15W-30 is acceptable for use in engine models where OEMs recommend the use of XW-30 engine oils.

Delo 400 SD SAE 15W-30 ISOCLEAN Certified Lubricant delivers value through:

- **Ready to use** — Enables users to meet stringent original equipment manufacturers' cleanliness standards for fill lubricants.

- **Flexibility** — ISO Cleanliness targets can be customized to fit your business application needs.
- **Peace of mind** — Each delivery of Chevron ISOCLEAN Certified Lubricant includes an ISOCLEAN Certificate of Analysis.
- **OE fluid cleanliness requirements** — Customized to meet specific equipment manufacturers' fluid cleanliness requirements.
- **Severe Duty** — Intended for severe duty applications like reducing idle time by turning the engine off at stops or deliveries, stop and go in heavy traffic or city delivery, towing heavy loads, or situations where temperatures of engine components are high. Severe duty applications typically have lower drain intervals relative to other duty cycles. See OEM recommendations for drain interval recommendations.
- **Exceptional oxidation and deposit control** — Exceptional oxidation stability and deposit control help protect piston ring belt zones and turbocharger bearings. Contributes to maximum vehicle utilization and minimal downtime.
- **Improved fuel economy** — Tests show comparable fuel economy to SAE 10W-30 in (Class 6) stop and go applications and up to 0.7% fuel economy improvement with long haul trucks (Class 8) when compared to a SAE 15W-40 oil.<sup>1</sup>
- **OEM approvals** — Carries a range of OEM approvals.
- **Excellent emission control system life** — Provides optimum Diesel Particulate Filter (DPF) life

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<sup>1</sup> SAE J1321 Fuel Consumption Test for short haul and Volvo D12D for long haul. Actual results will vary depending upon vehicle type, load and other driving conditions.

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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for minimal downtime and cleaning, thus managing your maintenance costs.

- **Managed inventory costs** — Backwards compatible with previous API Oil Service Categories and engine models where XW-30 oils are appropriate as noted in the OEM recommendations. Suitable for use in four-stroke gasoline and naturally aspirated, turbocharged and modern electronically controlled/low emission diesel engines. 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>2</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.

## FEATURES

Delo® 400 SD SAE 15W-30 ISOCLEAN® Certified Lubricant is formulated using Chevron patent pending technology to provide outstanding protection for on and off highway applications including 2010 compliant engines of on highway diesel trucks burning ultra low sulfur diesel (ULSD). Delo 400 SD SAE 15W-30 is formulated with ISOSYN® Technology and contains an optimal blend of dispersant, detergent, oxidation inhibition, antiwear, corrosion inhibition, viscosity improver, and defoaming additives.

Today, Delo 400 SD SAE 15W-30 ISOCLEAN Certified Lubricant meets the most stringent EGR soot control and particulate requirements.

## FUNCTIONS

Delo 400 SD SAE 15W-30 ISOCLEAN Certified Lubricant helps keep rings clean and free for maximum combustion pressure and minimal wear. It minimizes valve and piston crown land deposits, thus managing oil consumption. Its high level of resistance to oxidation helps to avoid filter plugging, corrosive wear,

heavy 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.

Delo 400 SD SAE 15W-30 ISOCLEAN Certified Lubricant is uniquely designed to minimize oxidation, sludge, and undue thickening in severe duty applications. Its unique blend protects against valve train wear and scuffing of highly loaded parts operating under boundary lubrication. Its resistance to oxidation and resulting deposit control help protect in hot engine components.

## APPLICATIONS

Delo 400 SD SAE 15W-30 ISOCLEAN Certified Lubricant 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/SM service category and SAE XW-30 viscosity grade is 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 SD SAE 15W-30 ISOCLEAN Certified Lubricant is approved for:

- **API Service Categories** CJ-4, CI-4 PLUS, CI-4, CH-4, SM
- **Cummins** CES 20081
- **Detroit Diesel DDC** Power Guard 93K218
- **DEUTZ** DQC III-10 LA
- **Mack** EO-O Premium Plus
- **MAN** M 3575
- **MB-Approval** 228.31
- **Renault** VI RLD-3
- **Volvo** VDS-4

### Delo 400 SD SAE 15W-30 ISOCLEAN Certified Lubricant is recommended for:

- **Caterpillar** ECF-3

<sup>2</sup> See Warranty Plus for details and restrictions.

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.

Consult with your Chevron Lubricant Representative or Chevron ISOCLEAN® Certified Lubricants Marketer to set specific ISO Cleanliness targets for your business application.

## TYPICAL TEST DATA

<b>SAE Grade</b>	<b>15W-30</b>
<i>Product Number</i>	224616
<i>SDS Number</i>	36110
Density at 15°C, kg/L	0.881
Viscosity, Kinematic cSt at 40°C cSt at 100°C	89.1 12.0
Viscosity, MRV, °C/Poise	-25/14,900
Viscosity, Cold Crank, °C/Poise	-20/64.0
Viscosity Index	128
Flash Point, °C(°F)	233(451)
Pour Point, °C(°F)	-36(-33)
Sulfated Ash, wt %	1.0
Base Number, ASTM D2896	9
Phosphorus, wt %	0.12
Sulfur, wt %	0.31
Zinc, wt %	0.12

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

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