



# DELO<sup>®</sup> 400 XLE SB ISOCLEAN<sup>®</sup> CERTIFIED LUBRICANT SAE 15W-40 (Synblend)



## PRODUCT DESCRIPTION

“Delo. Let’s go further.<sup>®</sup>”

Delo<sup>®</sup> 400 XLE SB SAE 15W-40 ISOCLEAN<sup>®</sup> Certified Lubricant with ISOSYN<sup>®</sup> Advanced Technology is a premium synblend, heavy-duty engine oil optimized with a mixture of synthetic and conventional base stocks designed for extended drains (up to 1.5x OEM standard drain interval) and mixed fleets. It is recommended for naturally aspirated and turbocharged, four-stroke diesel engines and four-stroke gasoline engines in which the API CK-4 or API SN service category and SAE 15W-40 viscosity grades are recommended. It is also approved by many of the major heavy-duty Original Equipment Manufacturers (OEM), meeting their latest engine oil specifications.

Chevron ISOCLEAN 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 XLE SB SAE 15W-40 ISOCLEAN Certified Lubricant with ISOSYN Advanced Technology is an API CK-4 heavy duty engine oil specifically formulated for on highway applications, including 2017 greenhouse gas (GHG 17) compliant diesel engines with lower CO<sub>2</sub> emissions, in addition to 2010 compliant low emission and off-highway Tier IV diesel engines with Selective Catalytic Reduction (SCR), Diesel Particulate Filter



(DPF) and Exhaust Gas Recirculation (EGR) systems calling for SAE 15W-40 premium heavy duty motor oil.

Additionally, Delo 400 XLE SB SAE 15W-40 ISOCLEAN Certified Lubricant has excellent performance in Allison heavy-duty transmission units requiring Allison TES-439 approval and provides excellent shear stability and component protection.

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

Delo 400 XLE SB SAE 15W-40 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.
- **Extended Drain Performance\*** — Formulated for extended oil drain protection for both on- and off-road diesel engines. Extended oil drain potential up to 1.5x, based on the average of U.S. Class 8 engine manufacturers’ recommendations.
- **Exceptional Deposit Control** — Provides high performance piston deposit control and turbocharger protection due to its superb oxidation performance. Its high performing detergent and dispersant additives provide excellent diesel engine component protection.

Product(s) manufactured in the USA and Colombia.

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

20 October 2024  
HDMO-55 ISOCLEAN

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- **Better Low Temperature Pumpability** — Improved flow rate and pumpability versus conventional SAE 15W-40 oils and similar pour point to conventional SAE 10W-30 products with better cold flow properties than conventional SAE 15W-40 products.
- **Long Drain Performance** — Formulated for long oil drain protection for both on and off-road diesel engines.
- **Minimized Operating Costs** — Exceptional soot dispersancy and wear control. Cylinders, pistons, rings, and valve train components are well protected against wear and corrosion, providing optimum service life and minimal maintenance. Contributes to maximum equipment utilization and minimal downtime.
- **Excellent Emission Control System Life** — Provides long 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. Provides single solution for the oil and gas industry for both heavy duty stationary engine and Allison off highway transmission performance. 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>1</sup> 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.

## ISOSYN ADVANCED TECHNOLOGY

Delo® 400 XLE SB SAE 15W-40 ISOCLEAN Certified Lubricant with ISOSYN® Advanced Technology is formulated using advanced additive technology to provide outstanding protection for on highway applications including new GHG 17 compliant engines.



ISOSYN Advanced Technology is the combination of Chevron's outstanding formulating expertise, unique high performance additive chemistry and premium base oils that helps extend the durability of critical diesel engine parts.

Delo 400 products formulated with ISOSYN Advanced Technology can provide improved engine longevity, extended oil drain performance, and excellent diesel component parts protection, helping to extend vehicle life and minimize total cost of ownership when compared with previous generation Chevron HDMO formulations.

Delo 400 XLE SB SAE 15W-40 ISOCLEAN Certified Lubricant with ISOSYN Advanced Technology 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, oil gelling, and minimizes the risk of valve train wear. 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 high-quality blend of anti-wear additives 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 entrainment.

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<sup>1</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.

ISOSYN Advanced Technology benefits customers by helping to provide:

- Improved engine durability with up to 44% improved liner wear<sup>2</sup>
- Potential for 1.5x extended oil life with up to 37% improved oxidation performance<sup>2</sup>
- Better reliability with up to 56% improved viscosity control<sup>2</sup>

## APPLICATIONS

Delo 400 XLE SB SAE 15W-40 ISOCLEAN Certified Lubricant has a wide range of specifications and approvals. It is recommended for today's most modern on-highway low emission designs, as well as older, on-highway diesel engines. This versatile oil meets stringent emissions standards, making it an ideal choice for various industries, including oil and gas, construction, agriculture, marine, and mining.

### Delo 400 XLE SB SAE 15W-40 ISOCLEAN Certified Lubricant is approved for:

- **API Service Categories** CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4, SN
- **Allison** TES-439
- **Cummins** CES 20086
- **Detroit Fluids Specification (DFS)** 93K222
- **DEUTZ** DQC III-18 LA
- **DTRF** 15C100 (previously known as MB 228.31)
- **Mack** EOS-4.5
- **MAN** M3775
- **Renault** RLD-3
- **Volvo** VDS-4.5

### Delo 400 XLE SB SAE 15W-40 ISOCLEAN Certified Lubricant is recommended for:

- **ACEA** E11
- **Caterpillar** ECF-3
- **Ford** WSS-M2C171-F1
- **JASO** DH-2
- **MTU** Category 2.1

<sup>2</sup> Results will vary based on the Delo 400 product, operating conditions, and engine types. Always follow OEM recommendations and utilize used oil analysis testing when extending oil drain intervals.

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

SAE Grade	15W-40
<i>Product Number</i>	278017
<i>SDS Number</i>	
<i>U.S.</i>	43380
<i>Canada</i>	43381
<i>Mexico</i>	43382
<i>Colombia</i>	46894
Density at 15°C, kg/L	0.87
Viscosity, Kinematic	
mm <sup>2</sup> /s at 40°C	110
mm <sup>2</sup> /s at 100°C	14.9
Viscosity, Cold Crank, °C/mPa.s	-20/5200
Viscosity, MRV, °C/mPa.s	-25/17,500
Viscosity, HTHS, mPa.s	4.2
Viscosity Index	141
Flash Point, °C(°F)	230(446)
Pour Point, °C(°F)	-39(-38)
Sulfated Ash, mass %	1.0
Base Number, mgKOH/g, ASTM D2896	8.0
Phosphorus, mass %	0.11
Sulfur, mass %	0.38
Zinc, mass %	0.12

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

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