DELO® 400 XSP-FA

SAE 5W-30 (Full Synthetic)

PRODUCT DESCRIPTION

"Delo. Let's go further.®"

Delo® 400 XSP-FA SAE 5W-30 (Full Synthetic) with ISOSYN® Advanced Technology is a premium full synthetic fuel-economy and mixed-fleet engine oil recommended for naturally aspirated and turbocharged four-stroke diesel engines and four-stroke gasoline engines in which the API FA-4, SN or SN PLUS service categories and SAE 5W-30 viscosity grade are recommended.

CUSTOMER BENEFITS

Delo 400 XSP-FA SAE 5W-30 with ISOSYN Advanced Technology is an API FA-4 performance heavy duty engine oil specifically formulated for on highway applications, including certain 2017 greenhouse gas-compliant (GHG 17) diesel engines with lower CO_2 emissions and improved fuel economy, as well as certain EPA 2010 compliant low emission diesel engines with Selective Catalytic Reduction (SCR), Diesel Particulate Filter (DPF) and Exhaust Gas Recirculation (EGR) systems, calling for API FA-4.

Delo 400 XSP-FA SAE 5W-30 delivers value through:

- **Fuel Economy Improvement** — Up to 2% improvement vs. SAE 15W-40 oil[1] in class 8 diesel engine bench testing.
- **Minimized Operating Costs** — Exceptional oxidation control enables extended oil drain intervals, contributing to maximum vehicle utilization and minimal downtime.
- **Promotes Consistent Cold Engine Starting** — Low viscosity synthetic base stocks promote consistent cold engine starting for diesel engines operating in sub-zero temperature.
- **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 allow for extended diesel engine component protection.
- **Excellent Emission Control System Life** — Promotes long Diesel Particulate Filter (DPF) life for minimal downtime and cleaning, thus minimizing maintenance costs.
- **Managed Inventory Costs** — Delo 400 XSP-FA SAE 5W-30 is suitable for use in gasoline engines and naturally aspirated or turbocharged electronically controlled/low emission diesel engines, where API FA-4, SN or SN PLUS performance and SAE 5W-30 are required. It allows users with a wide mix of engine brands to enjoy simplified inventory and dispensing systems that help save 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.[2] 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.

1 Actual results will vary depending upon vehicle type, load and other driving conditions.

2 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 XSP-FA SAE 5W-30 (Full Synthetic) with ISOSYN® Advanced Technology is formulated using advanced technology to provide outstanding protection and improved fuel economy for on-highway diesel engine applications that allow the use of an API FA-4 SAE 5W-30.

Delo 400 XSP-FA SAE 5W-30 is formulated with ISOSYN Advanced Technology, which is the combination of Chevron's industry-leading formulating expertise with unique, high performance additive chemistry to help extend the durability of critical engine parts.

ISOSYN ADVANCED TECHNOLOGY

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.

ISOSYN Advanced Technology benefits customers by helping to provide:

- Up to 35% improved oil oxidation control*
- Up to 69% improved wear protection*
- Up to 64% improved piston deposit control*

*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.

FUNCTIONS

Delo 400 XSP-FA SAE 5W-30 with ISOSYN Advanced Technology helps keep piston rings clean and free for optimum combustion pressure and minimal wear. Delo 400 XSP-FA SAE 5W-30 with ISOSYN Advanced Technology minimizes valve and piston crown land deposits, thereby managing oil consumption. Its high level of ashless dispersants keeps fuel soot in suspension and helps to avoid filter plugging, abrasive wear, viscosity increases, and oil gelation. These problems could cause excessive engine wear and bearing failure, without prior warning.

Optimized additive chemistries combined with synthetic base stocks control oxidation, sludge, and undue thickening between oil drains, enabling extended service intervals. Delo 400 XSP-FA SAE 5W-30 engine oil's antiwear technologies protect against valve train wear and scuffing of highly loaded parts operating under boundary lubrication. A defoaming additive helps prevent air entrainment.

APPLICATIONS

Delo 400 XSP-FA SAE 5W-30 with ISOSYN Advanced Technology is a mixed-fleet engine oil recommended for naturally aspirated and turbocharged four-stroke diesel engines and four-stroke gasoline engines in which the API FA-4, SN or SN PLUS service categories and SAE 5W-30 viscosity grade are recommended. It is formulated for engines operating under severe service, and broad climate conditions.

Delo 400 XSP-FA SAE 5W-30 with ISOSYN Advanced Technology is excellent for use in new, advanced engines developed to meet the latest emissions and reliability standards and in engines equipped with features like 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 XSP-FA SAE 5W-30 with ISOSYN Advanced Technology is formulated for exceptional performance with many fuels, including low sulfur and ultra low sulfur diesel fuels, gasoline, most gasoline fuel blends, and many biofuel formulations.

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Delo 400 XSP-FA SAE 5W-30 is approved for:

- **API Service Categories** FA-4, SN, SN PLUS
- **Cummins** CES 20087
- **DTFR** 15C130 (previously known as MB Approval 228.61)
- **Detroit Fluids Specification (DFS)** 93K223
- **Mack** EOS-5
- **Volvo** VDS-5

Delo 400 XSP-FA SAE 5W-30 is recommended for:

- **ACEA** F01
- **Ford** WSS-M2C214-B1
- **JASO** DH-2F

TYPICAL TEST DATA

SAE Grade	5W-30
Product Number	*257008*
SDS Number *U.S.* *Canada* *Mexico*	 *49948* *49949* *49950*
Density at 15°C, kg/L	0.86
Viscosity, Kinematic mm²/s at 40°C mm²/s at 100°C	 59 9.9
Viscosity, Cold Crank, °C/mPa.s	-30/6030
Viscosity, MRV, mPa.s	-35/18,500
Viscosity, HTHS, mPa.s	3.1
Viscosity Index	156
Flash Point, °C(°F)	231(448)
Pour Point, °C(°F)	-45(-49)
Sulfated Ash, mass %	1.0
Base Number, mgKOH/g, ASTM D2896	10
Phosphorus, mass %	0.08
Sulfur, mass %	0.3
Zinc, mass %	0.08

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

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