



CHEVRON DELO[®] 400 LE SYNTHETIC SAE 5W-40

CUSTOMER BENEFITS

“The Delo[®] Performance Advantage”

Chevron Delo[®] 400 LE Synthetic SAE 5W-40 is specifically formulated for new low emission engines using cooled exhaust gas recirculation (EGR) and diesel particulate filters (DPFs) and all pre-2007 engines. It is also fully compatible with previous API Oil Service Categories and engine models. It delivers value through:

- **Reduced operating costs** — Exceptional soot dispersancy and wear control by protecting cylinders, pistons, rings, and injectors against wear and corrosion, lasting longer in service and requiring less maintenance. Contributes to maximum vehicle utilization and minimal downtime.
- **Enhanced emission control system life** — Extends Diesel Particulate Filter (DPF) life for less frequent downtime and cleaning, thus decreasing maintenance costs.
- **Reduced inventory costs** — Chevron Delo[®] 400 LE Synthetic SAE 5W-40 is compatible with all previous API Oil Service Categories. One oil for all service; it can be used in all gasoline engines and naturally aspirated or turbocharged electronically controlled/low emission diesel engines. One oil that meets the engine performance requirements of North American and European engine manufacturers. One oil that allows users with a wide mix of engine brands to enjoy simplified inventory and dispensing systems that help save money, space, handling time and avoid product misapplication.
- **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** — Improves the bottom line business results of trucking industry professionals.

1. See Warranty Plus for details and restrictions.

FEATURES

Chevron Delo 400 LE Synthetic SAE 5W-40 is a 100% synthetic engine oil which exceeds industry and engine manufacturers' performance requirements.



It is formulated using the most advanced additive technology available to provide outstanding protection of all diesel engines, including those built for compliance with U.S. EPA 2007 exhaust particulate emissions standards for on highway diesel trucks, using Ultra Low Sulfur Diesel (ULSD).

Chevron Delo 400 LE Synthetic SAE 5W-40 is an optimal blend of the latest dispersant, detergent, oxidation inhibition, antiwear, corrosion inhibition, viscosity improver, and defoaming additive technologies.

Chevron Delo 400 LE Synthetic SAE 5W-40 meets the most stringent EGR soot and particulate control requirements.

Chevron Delo 400 LE Synthetic SAE 5W-40 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

Chevron Delo 400 LE Synthetic SAE 5W-40 keeps piston rings clean and free for optimum combustion pressure and minimal wear. Chevron Delo 400 LE Synthetic SAE 5W-40 reduces valve and piston crown land deposits, thus lowering oil consumption. Its high level of ashless dispersants keeps fuel soot in suspension and thus avoids filter plugging, cylinder head sludge, 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 basestocks control oxidation, sludge, and undue thickening between oil drains. Chevron Delo 400 LE Synthetic SAE 5W-40's antiwear technologies protect against valve train wear and scuffing of highly loaded parts operating under boundary lubrication. A defoaming additive prevents air entrapment.

APPLICATIONS

Chevron Delo 400 LE Synthetic SAE 5W-40 is a mixed-fleet motor oil recommended for all naturally aspirated and turbocharged four-stroke diesel engines and four-stroke gasoline engines in which the API CJ-4 or API SM service categories and SAE 5W-40 viscosity grades are recommended. It is formulated for engines operating under severe service and a wide range of climatic conditions.

Chevron Delo 400 LE Synthetic SAE 5W-40 is excellent for use in new advanced engines developed to meet 2007 emissions standards and in engines equipped with features like; four-valve heads, super-charging, turbo-charging, direct injection, shorter piston crowns, higher power density, intercooling, full electronic management of fuel and emissions systems, exhaust gas recirculation, and exhaust particulate filters.

It is formulated for superior performance with all fuels, including low sulfur and ultra 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.

Chevron Delo 400 LE Synthetic SAE 5W-40 meets:

- **API Service Categories** CJ-4, CI-4 PLUS, CI-4, SM
- **ACEA European Service Categories** E7
- **engine test performance requirements**
 - **Caterpillar** ECF-3, ECF-2
 - **Cummins** CES 20081
 - **Detroit Diesel Corp.** Power Guard Oil Specification 93K218, 93K214
 - **Mack** EO-O Premium Plus 07
 - **Mercedes Benz** MB-Approval 228.31
 - **MTU** Category 1
 - **Renault** RLD-3
 - **Volvo** VDS-4

TYPICAL TEST DATA

SAE Grade	5W-40
<i>Product Number</i>	271207
<i>MSDS Number</i>	24606
API Gravity	33.3
Viscosity, Kinematic cSt at 40°C cSt at 100°C	88.5 14.6
Viscosity, Cold Crank, C/Poise	-30/62.5
Viscosity Index	168
Flash Point, °C(°F)	232(450)
Pour Point, °C(°F)	-42(-43)
Sulfated Ash, wt %	1.0
Base Number, ASTM D 2896	10.3
Phosphorus, wt %	0.115
Sulfur, wt %	0.29
Zinc, wt %	0.127

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