

APPLICATIONS

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.

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 both 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.

Delo 400 LE Synthetic SAE 5W-40 meets:

- ▶ API Service Categories CJ-4, CI-4 PLUS, CI-4, CH-4, CG-4, SM
- ▶ ACEA European Service Categories E-7
- ▶ major diesel engine manufacturers' requirements
 - Caterpillar — Detroit Diesel — Mercedes — MAN
 - Cummins — MACK — Volvo
- ▶ engine test performance requirements
 - Caterpillar ECF-3, ECF-2 — Mack EO-O Premium Plus 07
 - Cummins CES 20081 — Volvo VDS-4
 - Detroit Diesel Corp. Power Guard Oil Specification 93K218, 93K214 — Renault RLD-3
 - MB-Approval 228.31 — MTU Category 1

TYPICAL TEST DATA

SAE Grade	5W-40	Flash Point, °C(°F)	232 (450)
Product Number	271207	Pour Point, °C(°F)	-42 (-43)
MSDS Number	24606	Sulfated Ash, wt %	1.0
API Gravity	33.3	Base Number, ASTM D 2896	10.3
Viscosity, Kinematic cSt at 40°C/cSt at 100°C	88.5/14.6	Phosphorus, wt %	0.114
Viscosity, Cold Crank, C/Poise	-30/62.5	Sulfur, wt %	.29
Viscosity Index	168	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.





CUSTOMER BENEFITS

“The Delo[®] Performance Advantage™”

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 by helping to:

- ▶ Reduce 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
- ▶ Enhance emission control system life — Extends Diesel Particulate Filter (DPF) life for less frequent downtime and cleaning, thus decreasing your maintenance costs
- ▶ Reduce inventory costs — 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. 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
- ▶ Potential for improved fuel economy and extended drain intervals

FEATURES

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 US EPA 2007 exhaust particulate emissions standards for on highway diesel trucks, using Ultra Low Sulfur Diesel (ULSD).

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
- ▶ meets the most stringent EGR soot and particulate control requirements
- ▶ 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 Synthetic SAE 5W-40 keeps piston rings clean and free for better combustion pressure and minimal wear. 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 gellation. These problems can 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. 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.