

# Delo<sup>®</sup> 400 LE Synthetic SAE 5W-40

Premium Performance Synthetic Heavy Duty Diesel Engine Oil



## Product description

**Delo<sup>®</sup> 400 LE Synthetic** is a premium performance, "low-SAPS" synthetic heavy-duty diesel engine oil specifically designed to lubricate a wide range of high-speed diesel engines requiring API CJ-4, CI-4 PLUS / SM, or ACEA E9 performance lubricants and SAE 5W-40 viscosity grades are recommended.

## Customer benefits and product features

### Customer benefits

- **Reduced emissions** - Formulated with latest generation "low-SAPS" (sulfated ash, phosphorus and sulfur) technology containing reduced levels of metals, phosphorus and sulfur, it maximizes the life of sensitive catalyst metals and the cleaning intervals of diesel particulate filters.
- **Minimizes maintenance and operating costs** - Exceptional soot dispersancy and wear control protects cylinders, pistons, rings, and valve train components against wear and corrosion, promoting optimum service life and minimal maintenance. Contributes to maximum vehicle utilization and minimal downtime.
- **Reduces inventory costs** - "Universal" formulation provides excellent overall performance in mixed fleets of different engine designs, (including modern low emission diesel engines) allowing one oil for many services and reducing the chance of product misapplication.
- **Wide temperature operating condition** - SAE 5W-40 viscosity grade, formulated with synthetic base oils and shear stable viscosity modifier to give good low temperature startability and high viscosity index, minimizing change in viscosity with temperature, allowing use over a wider range of operating temperatures.

### Product features

- Delo<sup>®</sup> 400 LE Synthetic is specifically designed for the latest low emission diesel engines fitted with Diesel Particulate Filters (DPF), and also those fitted with Selective Catalytic Reduction (SCR) and / or Exhaust Gas Recirculation (EGR) emission control technologies.
- Delo<sup>®</sup> 400 LE Synthetic is formulated with ISOSYN<sup>®</sup> base oils and the latest low-ash additive technology to provide exceptional soot dispersancy, deposit control and wear protection.

## Applications

The following applications whenever the manufacturer recommends SAE 5W-40 grade:

- Mixed fleets of diesel engines (high speed, four-stroke, turbocharged or naturally aspirated)
- Commercial road transport, including the latest engines fitted with exhaust clean-up devices of all types.
- Vehicles meeting the most recent exhaust emissions standards, including US EPA 2002 and 2007, Euro IV, V and VI, and Australian ADR 80/02 (for medium duty) and ADR 80/03 (for heavy duty)
- Mixed fleets of both diesel and gasoline engines, and both old and new equipment
- Stop-and-go vehicles in high soot loading service such as buses and waste collection trucks.
- Most diesel engined light duty vehicles.

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## Product approvals, performance and recommendations

### Performance

- API CJ-4, CI-4 PLUS, CI-4, CH-4 / SM
- ACEA E9, E7
- Caterpillar ECF-3, ECF-2
- Cummins CES 20081
- Daimler MB-Approval 228.31
- Detroit Diesel DDC Power Guard 93K218, 93K214
- Mack EO-O Premium Plus 07
- MAN M 3575
- Renault RLD-3
- Volvo VDS-4
- Allison TES-439

## Service Considerations

“Low SAPS” engine oils tend to have lower Base Numbers than “conventional” heavy-duty diesel engine oils. Used in conjunction with today’s low, very low or ultra-low sulfur content fuels this is of no consequence. However, in situations where very high sulfur (>0.5%) fuels are in use this may to some extent limit achievable drain intervals. Fuel sulfur levels have declined significantly over the past decade but are still relatively high in some countries.

While the level of phosphorus is low by heavy duty diesel engine oil standards, it is somewhat higher than permitted by certain recent standards for passenger car motor oils, e.g. ILSAC GF-5, and the ACEA “C” standards. Optimum life of catalytic emission control systems will be achieved by using oils of the performance standard recommended by the vehicle manufacturer.

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## Typical test data

DELO <sup>®</sup> 400 LE SYNTHETIC SAE 5W-40	RESULTS
<b>SAE Grade</b>	<b>5W-40</b>
<b>Product Code</b>	<b>500541</b>
Base No., D2896, mg KOH/g	10.3
Phosphorus, m %	0.11
Sulfated Ash, m %	1.0
Sulfur, m %	0.29
Kinematic Viscosity, cSt at 40°C cSt at 100°C	90.7 14.6
Viscosity Index	168
Zinc, m %	0.13

This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended. Produced by Chevron Global Lubricants: Asia Pacific.

ENVIRONMENT, HEALTH and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit the [Product Information Center](#).

This Product Data Sheet (PDS) was produced for the Asia Pacific region based on the best available information at the time of issue. The specific information included may not directly reflect the market or conditions and may vary. For the most up-to-date, country-specific information, please contact your local customer service center.

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