



Delo[®] 400 NG SAE 15W-40

High performance CNG, LNG and LPG engine lubricant

Product description

Delo 400 NG SAE 15W-40 is a high performance long drain compressed natural gas (CNG), liquefied natural gas (LNG) and liquefied petroleum gas (LPG) engine lubricant.

Delo 400 NG SAE 15W-40 is formulated with premium base oils in combination with shear stable viscosity modifiers and a low ash additive package. Delo 400 NG SAE 15W-40 offers long service life performance in spark and pilot diesel injection ignited CNG and LNG engines operating in high load, high temperature conditions, and offers cost efficient high performance protection in CNG and LNG municipal bus fleets, delivery trucks, waste trucks and off-road equipment.

Customer benefits

- Offers reliable high performance protection for medium and heavy duty vehicles using CNG, LNG or LPG
- Formulated for reliable engine cleanliness, with sludge control and valve and piston deposit protection
- Promotes good oil oxidation and nitration control with minimal main or connecting rod bearing corrosion
- Low wear performance – offers robust tappet and liner wear protection in alternative fuel engines
- Designed for extended oil drain intervals with long drain performance protection despite higher stress in CNG combustion

Product highlights

- **Offers robust CNG, LNG and LPG engine protection**
- **Provides reliable engine cleanliness**
- **Promotes good oil oxidation and nitration control**
- **Low wear performance**
- **Designed for extended oil drain**

Selected specification standards include:

Cummins	Detroit Diesel
Hino	Hyundai
Isuzu	Mack
Mercedes Benz	Renault
Volvo	

Applications

Delo 400 NG SAE 15W-40 is suitable for the following applications:

- LNG/CNG linehaul truck service
- LNG/CNG delivery truck service
- LNG/CNG waste truck service
- LNG/CNG cement truck service
- LNG/CNG oil field truck service
- CNG municipal bus service
- Light duty CNG pick-up trucks

Chevron has successfully tested Delo 400 NG SAE 15W-40 in Cummins ISL G series CNG engines in severe delivery truck service and has achieved oil drain intervals of 33% longer than the Cummins recommended drain interval for this engine in this service. Chevron recommends always following OEM specified oil drain intervals.

The types of CNG/LNG engine models that Delo 400 NG will provide maximum performance protection include:

- Cummins B5.9G
- Cummins C8.3G
- Cummins ISL G (8.9L)
- Cummins ISX12 G
- Cummins ISX15 G
- Detroit Diesel Series 50G
- Detroit Diesel Series 60G
- Navistar LNG Maxxforce® DT 7.6L
- Navistar LNG Maxxforce 13L

Approvals, performance and recommendations

Approvals

- Cummins CES 20085 natural gas engine oil specification
- Detroit Diesel 93K216 mobile gas engine oil specification

Recommendations

Suitable for use in applications requiring:

- Cummins CES 20074
- Mercedes Benz MB 226.9
- Volvo CNG
- Mack CNG
- Renault RGD
- Isuzu CNG
- Hino CNG
- Hyundai CNG

Typical test data		
Test	Test Methods	Results
Viscosity Grade		SAE 15W-40
Shelf Life: 60 months from date of filling indicated on the product label		
Density at 15°C, kg/l	ASTM D4052	0.876
Kinematic viscosity at 40°C, mm ² /s	ASTM D445	121
Kinematic viscosity at 100°C, mm ² /s	ASTM D445	15.7
Viscosity Index	ASTM D2270	133
Pour point, °C	ASTM D5950	-27
Flash point COC, °C	ASTM D92	230
Total Base Number, mg KOH/g	ASTM D2896	6.1
Sulphated Ash, %wt	ASTM D874	0.85

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

Disclaimer Chevron accepts no liability for any loss or damage suffered as a result of using this product for any application other than applications specifically stated in any Product Data Sheet's.

Health, safety, storage and environmental Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS's are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

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