



Delo® 400 NG SAE 15W-40



Delo®
Let's go further.™

PRODUCT DESCRIPTION

Delo® 400 NG SAE 15W-40 with ISOSYN® Technology is a premium oil formulated to deliver outstanding protection and long drain performance in a wide variety of compressed natural gas (CNG), liquefied natural gas (LNG) and liquefied petroleum gas (LPG) engine applications. It has demonstrated excellent field performance in a variety of operations and has the capability to help customers minimize operating costs in CNG/LNG engines of municipal bus service, linehaul and delivery truck service, waste truck operations and off-road equipment. It delivers value through:

- **Alternative fuel performance** – Delivers great performance for medium and heavy duty vehicles using CNG, LNG or LPG
- **Excellent engine cleanliness** – Excellent ratings for sludge control; and valve, or piston deposits in field trials and engine tests
- **Superb oil oxidation/nitration control** – Minimal main or connecting rod bearing corrosion
- **Low wear performance** – Offers excellent tappet and liner wear performance in alternative fuel engines
- **Extended oil drain performance** – Delivers long drain performance protection despite higher stress of CNG combustion, Chevron recommends following OEM specified oil drain intervals
- **Warranty Plus protection*** – warranty protection provided for CNG/LNG engines using Delo 400 NG

*See Warranty Plus for details and restrictions.

FEATURES



Delo 400 NG is formulated with Chevron's ISOSYN Technology which incorporates premium base oils, shear stable viscosity modifier and a low ash additive package specially formulated for long service in spark and pilot diesel injection ignited, CNG/LNG engines in stressful, high temperature conditions.

In heavy-duty natural gas vehicles, Delo 400 NG:

- Promotes engine reliability and durability through exceptional wear protection
- Minimizes valve recession and deposits
- Helps minimize oil consumption

APPLICATIONS

Delo 400 NG SAE 15W-40 can be used in various applications including: CNG/LNG engines of municipal bus service, linehaul and delivery truck service, waste truck operations and off-road equipment.

This product will provide maximum performance protection in the following engine models:

- 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

Delo 400 NG SAE 15W-40 is approved for:

- Cummins CES 20074 natural gas engine oil specification
- Detroit Diesel 93K216 mobile gas engine oil specification

and is suitable for use under:

- MB226.9
- Volvo® CNG
- Mack® CNG
- Renault® RGD
- Isuzu CNG
- Hino CNG
- Hyundai CNG

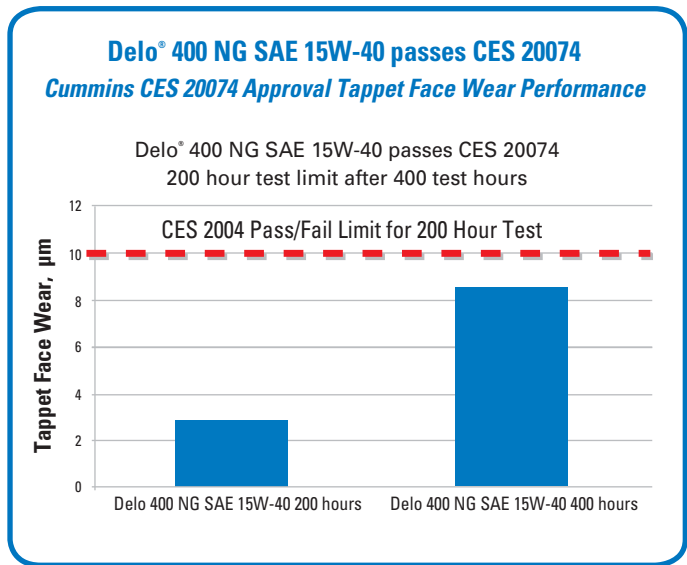
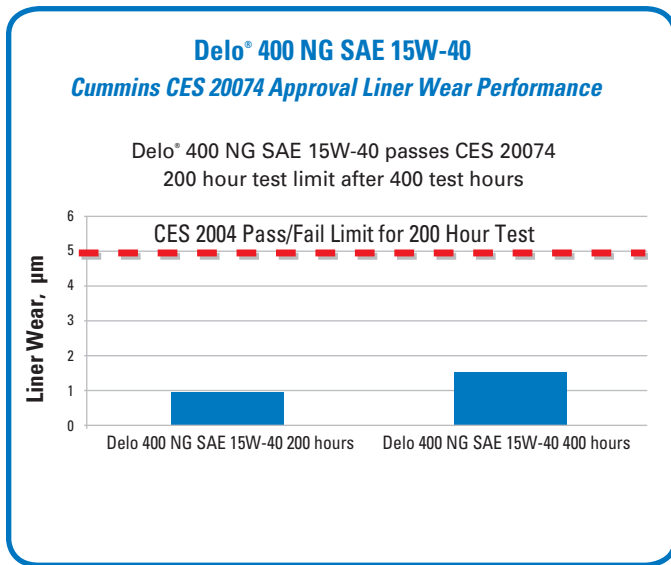
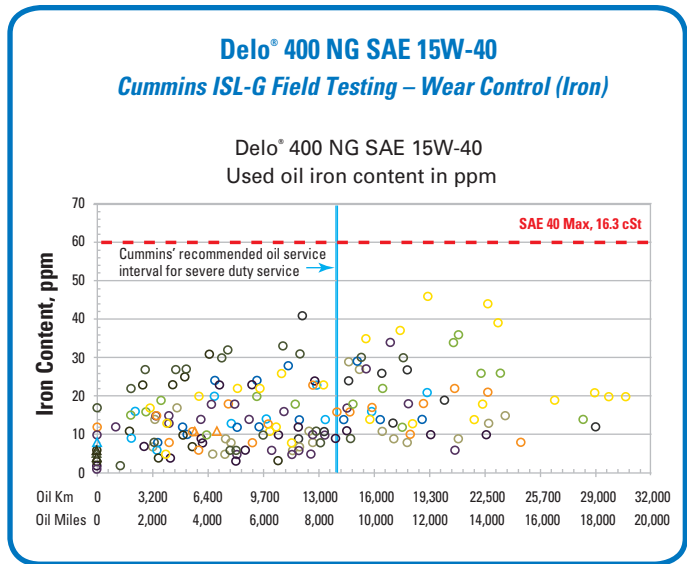
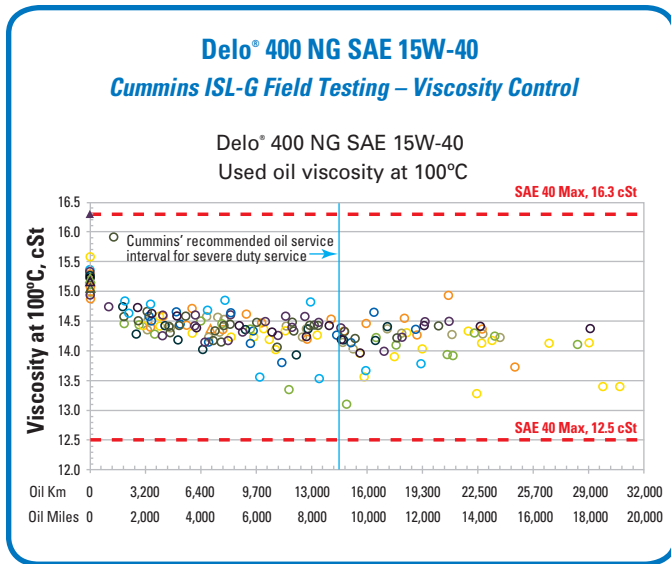


Delo®

PROOF OF PERFORMANCE

Testing in Cummins Engines

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



PROOF OF PERFORMANCE

DDC Bus Testing

Four complete DDC Series 50G bus engine tear-down inspections were completed to view piston and ring deposits, valve deposits and sludge. Delo 400 NG SAE 15W-40 proved to offer excellent performance:

- Good oxidation/nitration control with excellent connecting rod and main bearing corrosion protection
- Excellent engine cleanliness with minimal sludge or valve deposits
- Piston deposit control is better than diesel engine oils used in CNG engines
- Piston top deposit level much lower than conventional diesel engine oils

Series 50G Bus Engine Teardown

Bus Unit 303 pistons and liners in superb condition – Minimal wear and limited crown land deposits



Bus Unit 315 shows minimal liner wear. Piston rings are free of carbon and ash deposits using Delo 400 NG. The piston crown shows low ash buildup using Delo 400 NG.



TYPICAL TEST DATA

Product Number	222221
MSDS Number	31889
Density @ 15°C, kg/l	0.876
Viscosity, Kinematic cSt at 40°C	126
Viscosity, Kinematic cSt at 100°C	15.8
Viscosity Index	132
Flash Point, °C (°F)	230 (446)
Pour Point, °C (°F)	-27 (-17)
Sulphated Ash, wt %	0.85
Acid Number, ASTM D664	1.9
Base Number, ASTM D2896	6.1
Base Number, ASTM D4739	5.1
Phosphorus, ppm	800
Zinc, ppm	880

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



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