



Superlube NG[®]

Heavy Duty Engine Oil Compressed Natural Gas/Liquefied Natural Gas

General Description

Superlube NG[®] heavy duty engine oil is designed for outstanding performance and protection in compressed natural gas (CNG), liquefied natural gas (LNG), liquefied petroleum gas (LPG) and propane engines. It is formulated with proprietary low-ash additive chemistry along with high quality base oils and a sheer stable viscosity modifier to minimize oil consumption. Additionally, Superlube NG provides enhanced protection of slider follower flat tappets, valve train components and cylinder liners.

Superlube NG reduces ash build-up in critical parts of the engine, which minimizes valve deposits and valve seat recession. It also provides improved engine protection from wear, deposits, sludge, varnish, oxidation, nitration and acid accumulation.

Expect excellent performance in these applications:

- Heavy duty engines designed for vehicular applications using alternative fuels such as CNG/LNG/LPG.
- Alternative fueled engines with both spark and diesel pilot ignition systems.
- Vehicular engines calling for low-ash oil.

Features and Benefits

- **Oil Durability:** The use of HCG-2 base oils in conjunctions with the special additive technology provides additional oxidation, nitration control and reduced sulfur. These attributes translate to longer oil life at higher operating pressures and temperatures.
- **Wear Protection:** Contains additional anti-wear technology to maximize wear control resulting in longer component life.
- **Deposit Control:** Excellent control of deposits by using special detergents/dispersants which leads to lower oil consumption and longer engine life.
- **TBN Control:** Excellent TBN retention means that more combustion contaminants (deposits, soot and acids) can be neutralized during the course of a drain interval.
- **Emission and Catalyst Protection:** The technology in the oil is designed to provide extra protection of the 3-way catalyst.
- **Reserve Protection:** Additional reserve protections reduces wear and deposits for longer engine life, while minimizing maintenance and operating costs.
- **Extended Drain:** Superlube NG is capable of extended drain service with new and older engines using today's alternate fuels. This should be determined by OEM recommendations in conjunction with the LubeScan[®] used oil analysis program.

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Typical Applications

Superlube NG is designed to provide maximum performance for the OEM service categories of alternative fueled engines:

- Cummins CES 20074, Detroit Diesel 93K216 for Series 50G/60G engines, MB226.9.
- CNG/LNG engines from Volvo, Mack, Navistar, John Deere, Mahindra, Renault, Isuzu, Hino, Hyundai

Typical Customers

Operators of heavy duty CNG/LNG engines:

- Over the road long haul trucks, municipal buses, waste haulers, cement trucks, agriculture tractors, delivery trucks and pickup trucks.

Typical Properties

SAE Viscosity Grade	15W-40
API Service	Not Applicable
API Gravity/Density lbs/gal	30.2/7.28
Viscosity, cSt	
@ 40°C	122
@ 100°C	15.5
Viscosity Index	135
Flash C°/F°	228 / 442
Pour Point, C° / F°	-39 / -35
MRV-TP1, Viscosity, cP @ °C	24,000 @ -25
CCS Viscosity, cP @ °C	6,600 @ -20
Zinc, ppm	800
Phosphorus, ppm	730
TBN Base Number D2896	5.6
Sulfated Ash, % wt.	0.5

The typical properties listed reflect the general characteristics of the product, and are not manufacturing specifications. Normal batch-to-batch variations should be expected.

Health & Safety

A complete safety data sheet is available by calling 1-651-355-8438 or visit cenex.com/sds-library.