

Heavy Duty Engine Oil CNG/LNG

General Description

Superlube NG[®] heavy duty engine oil is designed to give outstanding performance and protection in compressed natural gas (CNG), liquefied natural gas (LNG), liquefied petroleum gas (LPG) and propane engines.

Superlube NG contains proprietary low ash additive chemistry along with select base oils and a sheer stable viscosity modifier to minimize oil consumption. It also has 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. This minimizes valve deposits and valve seat recession. In addition, it 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. This translates to longer oil life at the 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, acids) can be neutralized during the course of a drain interval.
- **Emission and Catalyst Protection:** The technology is designed to protect the 3-way catalyst.
- **Reserve Protection:** Additional reserve reduces wear and deposits for longer engine life, reduced maintenance, and minimize 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 Lubscan[™] used oil analysis program.

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Typical Application

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 Customer

Operators of heavy duty CNG/LNG engines:

- Over the road long haul trucks, municipal buses, waste haulers, cement trucks, agriculture tractors, delivery trucks, pick-up 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 www.cenex.com.