

NGEO 2000 LA



Low Ash Oil for Natural Gas Engines

General Description

NGEO 2000 LA engine oils are specially formulated for use in 4-stroke stationary natural gas engines. This oil is formulated with select base oils and carefully chosen additives that will satisfy old engines and newer engines that are designed to meet evolving emission requirements.

Some engines, whether due to operating conditions, engine design or the particular gas used may accumulate deposits and show high nitration/oxidation that may lead to shortened oil drains or engine life.

NGEO 2000 LA oils is premium oil formulated with high quality base oils and a premium additive system uniquely designed to control carbon deposits, scuffing and wear, resist oxidation and nitration. It is also very effective in minimizing valve recession giving longer head life.

Features and Benefits

- **Base Stock:** Blended with high quality paraffinic base oil. – No Bright Stocks are used.
- **Deposit control:** Oxidation inhibitors and detergents that control deposits minimize maintenance and maximize engine life.
- **Catalysis Compatible:** 2000 LA is formulated to be compatible with units using catalytic converters for emission control.
- **Detergents:** A special detergent helps neutralize acids and improved TBN retention that minimizes engine deposits and makes extended drains possible.
- **Antiwear Protection:** Reduces ring and liner wear, protecting highly loaded engine parts.
- **MultiGrade:** SAE 15W-40 grade is used for service applications where wide ambient temperatures changes and low temperature starting conditions are needed

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Typical Application

NGEO 2000 LA is a low ash oil that is typically used in 4-stroke natural gas engines manufactured by Caterpillar, Climax, Cooper Bessemer, Cooper-Enterprise, Dresser Rand, Dresser Worthington, Fairbanks- Morse, Superior, and Waukesha.

These engines are found on crude and gas transmission pipelines, electrical power and stand by generators, gas compressors and well drilling equipment.

Typical Customer

Owners/operators of:

- Natural gas or synthetic gas fueled stationary industrial engines.
- For heavy-duty service in turbocharged, lean burn, and naturally aspirated 4-stroke engines.

Expect Excellent Performance In

Stationary natural gas fueled 4-stroke engines whose manufactures specify low-ash oils and some selected 2-stroke engines.

Typical Properties

Property	NGEO- 2000 LA Low Ash		
	15W-40	30	40
API Gravity / lbs./gal.	30.6 / 7.27	29.9 / 7.30	29.1 / 7.34
Flash Point, °F	401	419	419
Viscosity cSt @ 40°C	107	98	139
	cSt @ 100°C	14.6	11.8
Viscosity Index	141	110	113
CCS Viscosity cP @ -20°C, typical	4,800		
Pour Point, max, °F / °C	-40 / -40	-15 / -27	-10 / -23
Total Base No. (TBN)	5.6	5.6	5.6
Sulfated Ash, %wt	0.46	0.46	0.46
Phosphorus, ppm Less than	300	300	300

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.