

NGEO 3000 NA



Ashless Oil for Natural Gas Engines

General Description

NGEO 3000 NA engine oils are specially formulated for all 2-stroke engines. These engines require ashless type engine oils to minimize piston and port deposits while extending spark plug life.

2-stroke natural gas engines, whether due to operating conditions, engine design or the particular fuel used, tend to be very sensitive to ash deposits which can cause deposit induced detonation and pre-ignition.

NGEO 3000 NA is a premium oil formulated with high quality paraffinic base oils and a ashless additive system. It is carefully balanced with ashless dispersants, anti-oxidants, extreme pressure, and corrosion inhibitors that control piston, ring and crankcase cleanliness. It protects against wear and minimizes piston scuffing during break in and has effective control over oxidation and nitration. The Ashless chemistry is effective in reducing port deposits and extending spark plug life.

Features and Benefits

- **Base Stock:** Blended with high quality paraffinic base oil – No Bright Stocks are used as they tend to accelerate carbon and port deposits.
- **Deposit control:** Ashless dispersants and oxidation inhibitors control piston and port deposits that minimize maintenance and maximize engine life.
- **Port Deposits:** Reduces port deposits by the use of select base oils and additive combinations that reduce engine down time.
- **Anti-wear Protection:** Special non-zinc technology is used to reduce wear protecting highly loaded engine parts.
- **MultiGrade:** SAE 15W-40 grade is used for service application where wide ambient temperatures changes and low temperature starting conditions are needed.

PDS-35-05

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Typical Application

NGEO 3000 NA is an ashless oil which is typically used in naturally aspirated and turbocharged 2-stroke natural gas engines manufactured by Ajax, Clark, Climax, Cooper Bessemer, Worthington, Fairbanks Morris.

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 fueled gas stationary industrial engines.
- For severe service in turbocharged and naturally aspirated 2-stroke natural gas engines.

Typical Properties

Property	NGEO- 3000 NA (Ashless)	
	15W-40	40
API Gravity / lbs./gal.	30.5 / 7.27	29.5 / 7.32
Flash Point, °F	401	468
Viscosity cSt @ 40°C (SUS)	106	137
cSt @ 100°C	14.7	14.3
Viscosity Index	143	102
CCS Viscosity cP @ -20°C, typical	5,800	
Pour Point, max, °F / °C	-40 / -40	-10 / -23
Total Base No. (TBN)	2.0	2.0
Sulfated Ash, %wt	Nil	Nil
Phosphorus, ppm Less than	<950	<950

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.