



NGEO 3000 NA



Ashless Oil for Natural Gas Engines

General Description

NGEO 3000 NA engine oils are specially formulated for all 2-stroke engines that require ashless engine oils to minimize deposits and extend spark plug life.

Natural gas 2-stroke 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. The advanced technologies within the formulation protect against wear, minimize piston scuffing and has effective control over oxidation and nitration. The ashless chemistry is also 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 using select base oils and additive combinations that reduce engine downtime.
- **Anti-wear Protection:** Special non-zinc technology is used to reduce wear on highly loaded engine parts.
- **Multi-grade:** SAE 15W-40 grade is used for service application where wide ambient temperatures changes and low temperature starting conditions are needed.

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Typical Applications

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- Morse.**

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

Typical Customers

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

SAE Grade	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
Viscosity 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 cenex.com/sds-library.