



## PRODUCT BULLETIN

### NGEO Low Ash Gas Engine Oil

PRODUCT #632 / #702 / #009

**CAM2 LOW ASH GAS ENGINE OILS** are low ash lubricants, which are recommended primarily for use in the lubrication of naturally-aspirated to highly turbocharged, medium and high speed, high output four-cycle engines. They can also be recommended for engines in cogeneration service, digester gas-fueled, dual-fueled (i.e. diesel/natural gas) and diesel-fueled service. They are formulated from quality high VI base stock and selected additives to provide excellent levels of detergency and dispersancy required for deposit control in high speed, severe service engines. These products contain anti-wear additives and additional antioxidant for improved oxidation, nitration stability and resistance to thermal breakdown for long service life. These products meet API CF, CD service level.

#### APPLICATIONS

- Engines calling for API CF, CD
- Satisfies requirements for naturally aspirated and turbo-charged engines
- Meets needs of alternate fueled vehicles in on-highway service such as mass transit and local delivery vehicles
- Engines operating on CNG compressed natural gas, LPG liquefied petroleum gas and LNG liquefied natural gas
- Vehicles equipped with NOx-SCR type exhaust catalysts due to low Phosphorus content

#### FEATURES

##### CAM2 LOW ASH GAS ENGINE OILS:

- Provides wear protection, deposit control and oxidation and nitration resistance.
- Provides protection and control of valve train wear and piston ring and liner wear, helping to prolong engine life.
- Designed to lubricate naturally aspirated and turbo charged engines
- Works well with natural and synthetic gas
- Can use a variety of fuels CNG compressed natural gas, LPG liquefied petroleum gas and LNG liquefied natural gas
- Low ash formulation reduces spark plug fouling, port plugging and preignition
- Minimizes formation of crankcase deposits and valve cover / top deck sludge
- Formulated to meet catalyst compatibility requirements and are especially suited for applications requiring low phosphorus oil to prevent catalyst poisoning





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#### RECOMMENDATIONS/ SPECIFICATIONS

CAM2 Low Ash Gas Engine Oils meets requirements API Service Categories CF and CD, and 4-stroke engine OEM specifications including:

- Caterpillar 3300, 3400, 3500, 3600 Series Engines
- Cummins L10/M11
- Delaval Enterprise
- Dresser-Rand(Categories I, II, and III)
- Superior 6GTL
- Waukesha VHP-GL, 12-AT27-GL, 9390GL
- Clark-Dresser
- MWN (Deutz)
- GE Jenbacher Type 2, 3, and 4
- Wartsila 25SG, 28SG, 34SG, 50SG, 175SG, 220SG, 20DF, 32DF, 34DF & 50DF Series
- Worthington
- MAN Diesel & Turbo

#### TYPICAL PROPERTIES

	ASTM	SAE 30	SAE 40	15W-40
Product Code		632	702	009
API Service Category		30	40	15W-40
TBN	2896	5.1	5.1	5.1
Flash Point °C (°F)	92	221/430	232/450	221/430
Pour Point, °C (°F)	97	-18/0	-15/0	-18/0
Viscosity, cSt @ 40°C		101	151	110
Viscosity, cSt @ 100°C	445	11.4	14.8	15.0
Viscosity Index	2270	95	95	142
Sulfated Ash, Mass %	874	<0.5	<0.5	<0.5

#### SPECIAL HANDLING, NOTICES OR WARNINGS

Use the same care and handling that you would use with petroleum products.

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