

## **Triton® 680 GEO**

76® Triton 680 GEO is a premium quality, low-ash, dispersant-detergent gas engine oil designed for use in high-output, 4-stroke cycle natural gas engines operating under heavy loads and extreme temperatures. Engines operating in this type of service typically are found on crude oil and gas transmission pipelines, electrical power generators, gas compressors, irrigation water pumps and well drilling rigs.

Triton 680 GEO is formulated with field-proven performance additives to meet the rigorous lubrication demands of modern, fuel-efficient, low-emission gas engines. It provides excellent resistance to oil oxidation and nitration, protects against ring and liner wear, helps minimize engine sludge and piston deposits for outstanding engine cleanliness, and protects against corrosion. It also protects against valve stem deposits and valve recession, resulting in reduced maintenance and extended engine life. The additive package has low phosphorus content to meet the requirements of gas engines equipped with catalysts for exhaust after-treatment.

### ***Applications***

- Turbocharged, lean-burn and naturally aspirated 4-stroke cycle natural gas engines where the manufacturer specifies a low-ash gas engine oil meeting API CD performance requirements

Triton 680 GEO is recommended for use in natural gas engines manufactured by:

- Caterpillar
- Climax
- Colt-Fairbanks Morse
- Dresser Rand (Category I, II, III)
- Minneapolis Moline
- Nordberg
- Ruston
- Superior
- Wartsila
- Waukesha
- Worthington

**Premium  
Low-Ash  
Natural Gas  
Engine Oil**

### **CONTACT INFORMATION**

**Phillips66  
Lubricants.com**

U.S. Customer  
Service:  
**1-800-368-7128**

Technical Hotline:  
**1-877-445-9198**

International  
Customer Service:  
**1-832-765-2500**

E-mail address:  
**76lubricants@  
p66.com**

### Features/Benefits

- Field-proven performance in providing outstanding engine cleanliness
- Proven performance in lean-burn engines
- High dispersancy protects against engine sludge and varnish deposits
- Excellent resistance to oil oxidation and nitration
- Protects against scuffing and wear
- Protects against rust and corrosion
- Protects against valve stem deposits and valve recession
- Compatible with emissions system catalysts
- Does not contain any bright stock, which can cause harmful carbon deposits

### Triton® 680 GEO

#### Typical Properties

SAE Grade	30	40	15W-40
Specific Gravity @ 60°F	0.886	0.888	0.870
Density, lbs/gal @ 60°F	7.38	7.40	7.25
Color, ASTM D1500	6.5	7.0	7.0
Flash Point (COC), °C (°F)	254 (489)	270 (518)	240 (464)
Pour Point, °C (°F)	-36 (-33)	-28 (-18)	-39 (-38)
Viscosity, Kinematic			
cSt @ 40°C	94.0	141	108
cSt @ 100°C	10.7	14.3	14.6
Viscosity Index	96	99	139
Cold Cranking Viscosity, cP	—	—	6,000
@ (°C)	—	—	(-20)
Sulfated Ash, ASTM D874, wt %	0.45	0.45	0.45
Total Base Number (TBN), ASTM D2896	4.2	4.2	4.2
Phosphorus, wt %	0.028	0.028	0.028
Zinc, wt %	0.032	0.032	0.032

### Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3apps.phillips66.com/NetMSDS>.