



**LUBRICANTS**

## **Guardol® NG**

Phillips 66® Guardol NG is a high-quality, dispersant-detergent gas engine oil specially designed for use in vehicular natural gas engines that have slider-follower valve trains. It is formulated with a higher level of antiwear additives than conventional low-ash gas engine oils to meet the enhanced wear protection requirements of diesel engines converted to natural gas service. It is particularly recommended for use in transit buses, school buses, delivery trucks and other vehicles equipped with Cummins, Detroit Diesel or John Deere CNG or LNG engines.

Guardol NG is formulated to provide outstanding oxidation and nitration resistance, excellent wear protection, and protection against rust and corrosion. It minimizes the formation of sludge and deposits for good engine cleanliness, and protects against valve stem deposits and valve seat recession, resulting in reduced maintenance and extended engine life. It also has good resistance to foaming and aeration.

### **Applications**

- Transit buses, school buses, delivery trucks and other vehicles equipped with slider-follower CNG or LNG engines

Guardol NG is OEM-certified for:

- Cummins CES 20085
- Detroit Diesel DFS 93K216 (Series 50G and Series 60G engines)

Guardol NG meets the performance requirements of:

- John Deere 6.8L and 8.1L CNG engines

### **Features/Benefits**

- Excellent wear protection for diesel engines converted to natural gas service
- High dispersancy protects against sludge and varnish formation
- Outstanding resistance to oxidation and nitration
- Protects against scuffing and wear
- Protects against valve stem deposits and valve seat recession
- Protects against rust and corrosion
- Good foam resistance

## **Natural Gas Engine Oil for Vehicular Applications**





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## Guardol® NG

| Typical Properties                        |               |
|-------------------------------------------|---------------|
| <b>SAE Grade</b>                          | <b>15W-40</b> |
| Specific Gravity @ 60°F                   | 0.875         |
| Density, lbs/gal @ 60°F                   | 7.29          |
| Color, ASTM D1500                         | 7.5           |
| Flash Point (COC), °C (°F)                | 227 (441)     |
| Pour Point, °C (°F)                       | -36 (-33)     |
| Viscosity, Kinematic                      |               |
| cSt @ 40°C                                | 114           |
| cSt @ 100°C                               | 15.2          |
| Viscosity Index                           | 139           |
| Cold Cranking Viscosity (CCS), cP @ -20°C | 6,300         |
| Sulfated Ash, ASTM D874, wt %             | 0.76          |
| Total Base Number (TBN), ASTM D2896       | 6.0           |
| Phosphorus, wt %                          | 0.080         |
| Zinc, wt %                                | 0.088         |

## Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <http://www.phillips66.com/EN/products/Pages/MSDS.aspx>.

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Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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