



Guardol® NG-D

Phillips 66® Guardol NG-D is a high-quality synthetic blend, dispersant-detergent engine oil specially designed for use in vehicular natural gas and diesel engines. It is formulated with optimal levels of anti-wear additives to meet the enhanced wear protection requirements of diesel engine platforms as well as 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, Volvo or converted CNG engines.

Guardol NG-D is formulated to provide outstanding oxidation and nitration resistance to offer extended drain interval potential. 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 operating on CNG or Natural gas.

Guardol NG-D is approved for:

- Cummins CES 20092
- Cummins CES 20086
- API CK-4/SN

Guardol NG-D meets the performance requirements of:

- Detroit Diesel DFS 93K222
- Volvo VDS 4.5

Features/Benefits

- Designed for engines fueled by diesel or natural gas (CNG)
- 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
- Reduces risk of misapplication in mixed fleets
- Extended drain capable

**Premium
Synthetic Blend
Engine Oil for
Vehicular Natural
Gas and Diesel
Applications**





Guardol® NG-D

Typical Properties	
SAE Grade	15W-40
Specific Gravity @ 60°F	0.876
Density, lbs/gal @ 60°F	7.29
Color, ASTM D1500	5.0
Flash Point (COC), °C (°F)	227 (441)
Pour Point, °C (°F)	-36 (-33)
Viscosity, Kinematic	
cSt @ 40°C	119
cSt @ 100°C	15.3
Viscosity Index	138
Cold Cranking Viscosity (CCS), cP @ -20°C	5900
Sulfated Ash, ASTM D874, wt %	0.9
Total Base Number (TBN), ASTM D2896	10.2
Phosphorus, wt %	0.078
Zinc, wt %	0.086

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/SDS>

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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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