

## CITGO CITGARD® CNG/LNG ENGINE OIL



Date 04/18

**DESCRIPTION:** CITGO CITGARD CNG/LNG Engine Oil is a specially formulated synthetic blend for compressed natural gas (CNG) engines in transit operation. It is available as a SAE 15W-40 viscosity grade. Building on CITGO's long heritage of outstanding gas engine oils for stationary applications, CITGO CITGARD CNG/LNG Engine Oil provides the protection needed in today's demanding mobile CNG applications.

**QUALITIES:** CITGO CITGARD CNG/LNG Engine Oil is formulated with base stocks specially selected for compressed natural gas operation, proven additives and a shear stable VI improver. This unique combination provides protection against deposits in the higher temperature natural gas combustion chamber. Liner and tappet wear protection far exceed original equipment manufacturer's requirements. CITGO's combination of components provides excellent cold pumpability, foam protection, exceptional oxidation and nitration control, overall engine cleanliness, and reduced oil consumption.

**BENEFITS**

- Extensively field tested under severe mobile operating conditions
- Meets major mobile-on highway gas engine requirements
- Longer engine oil service life capability in a variety of mobile engine applications. Always follow OEM recommendations when extending oil drain intervals
- Excellent TBN and TAN retention
- Resists viscosity breakdown and maintains excellent oil films under high engine loads over engine oil service intervals
- Reserve protection against oxidation and nitration resulting from higher CNG LNG operating temperatures

**APPLICATIONS:**

CITGO CITGARD CNG/LNG Engine Oil is conforming to Cummins CES 20085 and to Detroit Diesel Corporation (DDC) Power Guard Oil specification 93K216, and is recommended for use in Series 60G, 50G and 30G natural gas engines. Mack Trucks and John Deere also call for this quality of oil in their natural gas fueled engines. CITGO CITGARD CNG/LNG Engine Oil is also suitable for use with other gaseous fuels such as LPG. Always consult your owner's manual for correct oil recommendations.

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## CITGO CITGARD® CNG/LNG ENGINE OIL



Date 04/18 - (Continued)

**APPLICATIONS:**  
**(Cont'd.)**
**TYPICAL PROPERTIES:**


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|----------------------------------|---------------|
| <b>SAE Grade</b>                 | <b>15W-40</b> |
| Material Code                    | 632020001     |
| Gravity, ASTM D4052, °API        | 29.7          |
| Pounds Per Gallon                | 7.31          |
| Flash Point, ASTM D92, °F (°C)   | 437 (225)     |
| Viscosity ASTM D445, cSt at 40°C | 128           |
| cSt at 100°C                     | 15.9          |
| Viscosity Index, ASTM D2270      | 131           |
| Pour Point, ASTM D97, °F (°C)    | -33 (-36)     |
| Sulfated Ash, ASTM D872, %       | 0.91          |
| Total Base Number, ASTM D2896    | 6.9           |

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