



CITGO® CITGARD® 500 HSN Engine Oil SAE 15W-40

OVERVIEW



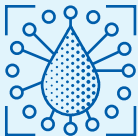
- Formulated especially for turbocharged diesel engines operating in severe conditions and using higher sulfur fuel.
- Designed to provide improved performance for older engines and newer engines that are not equipped with diesel particulate filters.

FEATURES & BENEFITS

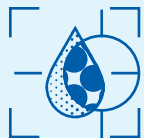


- Formulated with a balanced combination of base oil and additives to deliver optimum performance in the critical areas of lubrication.
- The high total base number (TBN) of the formulation neutralizes the harmful effects of fuel sulfur acid, providing added protection from corrosive wear.
- Maintains a stable viscosity and protective oil film when operating at higher loads and temperatures.
- Performance benefits include overall engine cleanliness, reduced oil consumption, and improved cold-cranking protection at startup.

APPLICATIONS



- Recommended for turbocharged and naturally aspirated diesel engines operating with higher sulfur fuel.
- Recommended for equipment requiring:
API CI-4/SL
Cummins CES 20078
Caterpillar ECF-2

PROPERTIES**Typical Properties for CITGO CITGARD 500 HSN Engine Oil SAE 15W-40:**

SAE Grade	15W-40
API Service Category	CI-4/SL
Material Code	622215001
Gravity, ASTM D4052, °API	30.0
Density, lb/gal at 60°F	7.30
Flash Point, ASTM D92 (COC), °F (°C)	450 (232)
Viscosity ASTM D445	
cSt at 40°C	120
cSt at 100°C	15.8
Viscosity Index, ASTM D2270	139
Pour Point, ASTM D97, °F (°C)	-38 (-39)
Sulfated Ash, ASTM D874, m%	1.3
Total Base Number, ASTM D2896, mg KOH/g	11.3

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