



CITGO® CITGARD® 500 HSN Engine Oils Monogrades

OVERVIEW



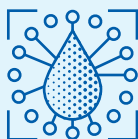
- Formulated and engineered especially for diesel engines operating in severe conditions requiring extra protection to maintain engine cleanliness and wear protection. Excellent for higher mileage or older diesel engines operating in warmer climates.
- Advanced additive technology provides improved cylinder liner oil film retention for better piston ring and liner sealing, resulting in reduced oil consumption and improved engine efficiency.

FEATURES & BENEFITS



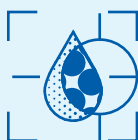
- Formulated with a balanced combination of base oil and additives to deliver balanced protection.
- The high total base number (TBN) of the formulation neutralizes the harmful effects of fuel sulfur acid, providing added protection from corrosive wear.
- Performance benefits include overall engine cleanliness, reduced oil consumption, and higher sulfur fuel neutralization.

APPLICATIONS



- Recommended for diesel engines operating in a variety of severe conditions.
- An excellent choice for transit bus applications and other fleet operations that can benefit from a high-performance diesel engine oil.

PROPERTIES



Typical Properties for CITGO CITGARD 500 HSN Engine Oils - Monogrades:

SAE Grade	40	50
Material Code	622211001	622212001
Gravity, ASTM D4052, °API	27.2	27.1
Density, lb/gal at 60°F	7.42	7.43
Flash Point, ASTM D92 (COC), °F (°C)	486 (252)	482 (250)
Viscosity ASTM D445		
cSt at 40°C	136	207
cSt at 100°C	14.1	19.0
Viscosity Index, ASTM D2270	101	103
Pour Point, ASTM D97, °F (°C)	-22 (-30)	-27 (-33)
Sulfated Ash, ASTM D874, m%	1.3	1.3
Total Base Number, ASTM D2896, mg KOH/g	11	11

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