

CITGO CITGARD® STATIONARY DIESEL ENGINE OIL



Date 06/15

DESCRIPTION: CITGO CITGARD Stationary Diesel Engine Oil has been reformulated to meet the increasing performance requirements of newer engine technology. The new formula inherits the benefits of many years of exceptional performance in 4-cycle engine applications.

This proven experience makes this product particularly beneficial in stationary 3500 series Caterpillar engines demanding optimum service intervals and long engine life. CITGO CITGARD Stationary Diesel Engine Oil is designed to effectively combat sludge and varnish formation in the new high-output, low-emission engine designs. CITGO CITGARD Stationary Diesel Engine Oil can be used in most types of diesel-powered equipment when one product is needed.

- BENEFITS:**
- Excellent detergent control of piston ring deposits in highly stressed engines.
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 - Excellent fuel soot dispersancy and oxidation resistance to protect against excessive oil viscosity increase.
 - Superior wear protection and friction reduction.
 - Excellent high-temperature/high-shear rate viscosity without sacrificing low-temperature viscosity.
 - Excellent TBN retention to prevent corrosion wear.
 - Proven oil consumption control in heavy-duty service.
 - Meets manufacturers' warranty requirements.
 - Excellent shear stability to assure stay-in-grade performance

CAPABILITIES: Caterpillar ECF-3
Cummins CES 20081 (pending)
API CJ-4, CI-4 PLUS, CI-4, CH-4 / SM

APPLICATIONS: CITGO CITGARD Stationary Diesel Engine Oil is targeted for high performance Caterpillar 3500 series engines operating in stationary high production applications such as on and off-shore drilling where optimum engine and oil service life is needed to reduce maintenance costs.

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ENGINE OIL



Date 06/15 - (Continued)

TYPICAL PROPERTIES:

CITGO CITGARD® STATIONARY DIESEL ENGINE OIL

SAE Grade	15W-40
Material Code	622345001
Gravity, ASTM D 287, °API	29.7
Density, lbs/gal	7.31
Flash Point, ASTM D 92, COC, °F (°C)	437 (225)
Viscosity, ASTM D 445, cSt at 40° C	122
cSt at 100° C	15.7
Viscosity Index, ASTM D 2270	136
HTHS Rate Viscosity at 150°C, ASTM D 4683, cP	4.29
CCS Viscosity at -20°C, ASTM D 5293, cP	6380
MRV Pumpability at -25°C, ASTM D 4684, cP	21900
MRV Yield Stress at -25°C, ASTM D 4684	<35
Pour Point, ASTM D 97, °F (°C)	-38 (-39)
Color, ASTM D 1500	L4.5
Sulfated Ash, ASTM D 874, m%	1.0
Total Base Number, ASTM D 2896, mg KOH/g	10

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