

CITGO CITGARD® HD ENGINE OIL



Date 04/18

DESCRIPTION: CITGO CITGARD HD Engine Oil is a heavy duty engine oil designed for both older and newer diesel engines equipped with low emission technology. CITGARD HD Engine Oil is recommended for equipment owners operating within normal duty cycles and maintaining engine manufacturer recommended oil change intervals. This product meets the API CK-4 and earlier API Categories.

- QUALITIES:**
- Clean engine Detergent Additive System
 - Soot Control Protection
 - Wear reduction additive technology
 - Protects against viscosity breakdown
 - Corrosive Wear Protection
 - Improved oxidation protection compared to API CJ-4 engine oils.

APPLICATIONS:

Caterpillar ECF-3
 Mack EOS-4.5
 Volvo VDS-4.5
 Cummins CES 20086
 Detroit Diesel DFS 93K222
API Service - API CK-4, CJ-4, CI-4 Plus, CI-4, CH-4/SN

TYPICAL PROPERTIES:**CITGO CITGARD® HD ENGINE OIL**

SAE Grade	15W-40
Material Code	622515001
Gravity, ASTM D4052, °API	29.7
Density, lbs/gal	7.31
Flash Point, ASTM D92 (COC), °F (°C)	442 (228)
Viscosity ASTM D445, cSt at 40°C	117
cSt at 100°C	15.6
Viscosity Index, ASTM D2270	142
HTHS Rate Viscosity at 150°C, ASTM D4683, cP	4.2
CCS Viscosity at -20°C, ASTM D5293, cP	5800
MRV Pumpability at -25°C, ASTM D4684, cP	17000
MRV Yield Stress at -25°C, ASTM D4684	<35
Pour Point, ASTM D97, °F (°C)	-33 (-36)
Color, ASTM D1500	L4.5
Sulfated Ash, ASTM D874, m%	1.0

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