

CITGO CITGARD® 600 ENGINE OILS



**DESCRIPTION:** CITGO CITGARD 600 Engine Oils use superior technology to protect low-emissions engines equipped with exhaust after-treatment systems and other new design features. These products meet the API CJ-4 heavy duty requirements as well as existing API CI-4 PLUS and earlier categories.

- PERFORMANCE BENEFITS:**
- Formulated specifically for low emission engines equipped with EGR, DOC and SCR
  - Provides advanced soot control utilizing SootArrest™, soot dispersant chemistry
  - Offers advantages for heavy duty commercial trucks and other diesel-fueled applications, including off-road equipment
  - State-of-the-art wear control technology for reduced wear
  - Exceptional oxidation and thermal protection for operating at extreme temperatures
  - Extends diesel particulate filter (DPF) life
  - SAE 10W-30 improves fuel economy and cold cranking lubrication

**PERFORMANCE CAPABILITIES:** Equipment requiring API CJ-4, CI-4 PLUS, CI-4, CH-4/SN  
 Detroit Diesel 93K218  
 Caterpillar ECF-3  
 Mack EO-O Premium Plus  
 Cummins CES 20081  
 Volvo VDS-4  
 Mercedes 228.31

**APPLICATIONS:** Recommended for use in heavy-duty service in commercial trucks, agricultural equipment, construction equipment, stationary engines, and other diesel-fueled engine applications.

**TYPICAL PROPERTIES:**

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<b>SAE Grade</b>	<b>15W-40</b>	<b>10W-30</b>
Material Code	622615001	622613001
Gravity, ASTM D4052, °API	30.1	31.5
Density, lbs/gal	7.32	7.25
Flash Point, ASTM D92 (COC), °F (°C)	450 (232)	450 (232)
Viscosity, ASTM D445, cSt at 40°C	118	83
cSt at 100°C	15.6	12.3
Viscosity Index, ASTM D2270	139	141
HTHS Rate Viscosity at 150°C, ASTM D4683, cP	4.3	3.5
CCS Viscosity, ASTM D5293, cP	5,850 at -20°C	6,250 at -25°C
MRV Pumpability, ASTM D4684, cP	16,100 at -25°C	23,000 at -30°C
MRV Yield Stress, ASTM D4684	<35 at -25°C	<35 at -30°C
Pour Point, ASTM D97, °F (°C)	-22 (-30)	-37 (-39)
Color, ASTM D1500	L3.5	L3.0
Sulfated Ash, ASTM D874, m%	1.0	1.0
Total Base Number, ASTM D2896, mg KOH/g	10	10

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