CITGO CITGARD® 700 ENGINE OIL SAE 15W-40

Date 01/10

DESCRIPTION: CITGO CITGARD 700 SAE 15W-40 is a synthetic blend using superior technology to protect all low-emissions engines equipped with exhaust after-treatment systems and other new design features. This product exceeds the API CJ-4 heavy duty requirements as well as existing API CI-4 PLUS and earlier categories.

PERFORMANCE BENEFITS:

- Synthetic blend formulated specifically for engines using Ultra Low Sulfur Diesel (ULSD)
- Provides advanced soot control utilizing SootArrest™, soot dispersant chemistry
- Offers advantages for post-2007 and pre-2007 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
- Meets manufacturers' latest warranty requirements

RECOMMENDED FOR:

Equipment requiring API CJ-4, CI-4 PLUS, CI-4, CH-4, CG-4, CF, SM
Cummins CES 20081
Mack EO-O Premium Plus 07
Detroit Diesel 93K218
Caterpillar ECF-3
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. Permits year-round use by offering improved low temperature startability with full lubrication at high operating temperatures.

TYPICAL PROPERTIES:

CITGO CITGARD® 700 ENGINE OIL SAE 15W-40

SAE Grade	**15W-40**
Material Code	622720001
Gravity, ASTM D 287, °API	29.6
Density, lbs/gal	7.31
Flash Point, ASTM D 92, COC, °F (°C)	450 (232)
Viscosity, ASTM D 445, cSt at 40°C	123
cSt at 100°C	15.6
Viscosity Index, ASTM D 2270	134
HTHS Rate Viscosity at 150°C, ASTM D 4683, cP	4.3
CCS Viscosity at -20°C, ASTM D 5293, cP	5,950
MRV Pumpability at -25°C, ASTM D 4684, cP	16,500
MRV Yield Stress at -25°C, ASTM D 4684	<35
Pour Point, ASTM D 97, °F (°C)	-27 (-33)
Color, ASTM D 1500	L3.5
Sulfated Ash, ASTM D 874, m%	1.0
Total Base Number, ASTM D 2896, mg KOH/g	10