

CITGO CITGARD® 700 ENGINE OILS  
SAE 10W-30 AND 15W-40



Date 03/11

**DESCRIPTION:** CITGO CITGARD 700 Engine Oils SAE 10W-30 and 15W-40 are synthetic blends using superior technology to protect all low-emissions engines equipped with exhaust after-treatment systems and other new design features. These products exceed the API CJ-4 heavy duty requirements as well as existing API CI-4 PLUS and earlier categories.

- PERFORMANCE BENEFITS:**
- Synthetic blends 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
  - Protects against engine oil oxidation and fuel dilution, especially in fleets operating greater than 5% biodiesel fuel
  - SAE 10W-30 improves fuel economy and cold cranking lubrication

**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 (applies only to SAE 15W-40)	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 OILS SAE 10W-30 AND 15W-40**

SAE Grade	10W-30	15W-40
Material Code	622713001	622720001
Gravity, ASTM D 287, °API	30.0	29.6
Density, lbs/gal	7.30	7.31
Flash Point, ASTM D 92, COC, °F (°C)	431 (222)	450 (232)
Viscosity, ASTM D 445, cSt at 40°C	81	123
cSt at 100°C	11.8	15.6
Viscosity Index, ASTM D 2270	139	134
HTHS Rate Viscosity at 150°C, ASTM D 4683, cP	3.5	4.3
CCS Viscosity, ASTM D 5293, cP	6,320 @ -25°C	5,950 @ -20°C
MRV Pumpability, ASTM D 4684, cP	15,300 @ -30°C	16,500 @ -25°C
MRV Yield Stress, ASTM D 4684	<35 @ -35°C	<35 @ -25°C
Pour Point, ASTM D 97, °F (°C)	-33 (-36)	-27 (-33)
Color, ASTM D 1500	L3.5	L3.5
Sulfated Ash, ASTM D 874, m%	1.0	1.0
Total Base Number, ASTM D 2896, mg KOH/g	10	10

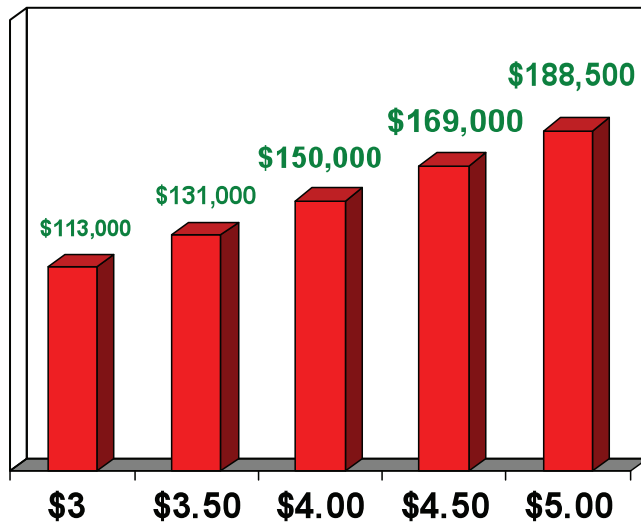
(Continued)

CITGO CITGARD® 700 ENGINE OILS  
SAE 10W-30 AND 15W-40



Date 03/11 - (Continued)

## CITGARD 700 10W-30 Annual Fuel Cost Savings



### Calculation Reference Information

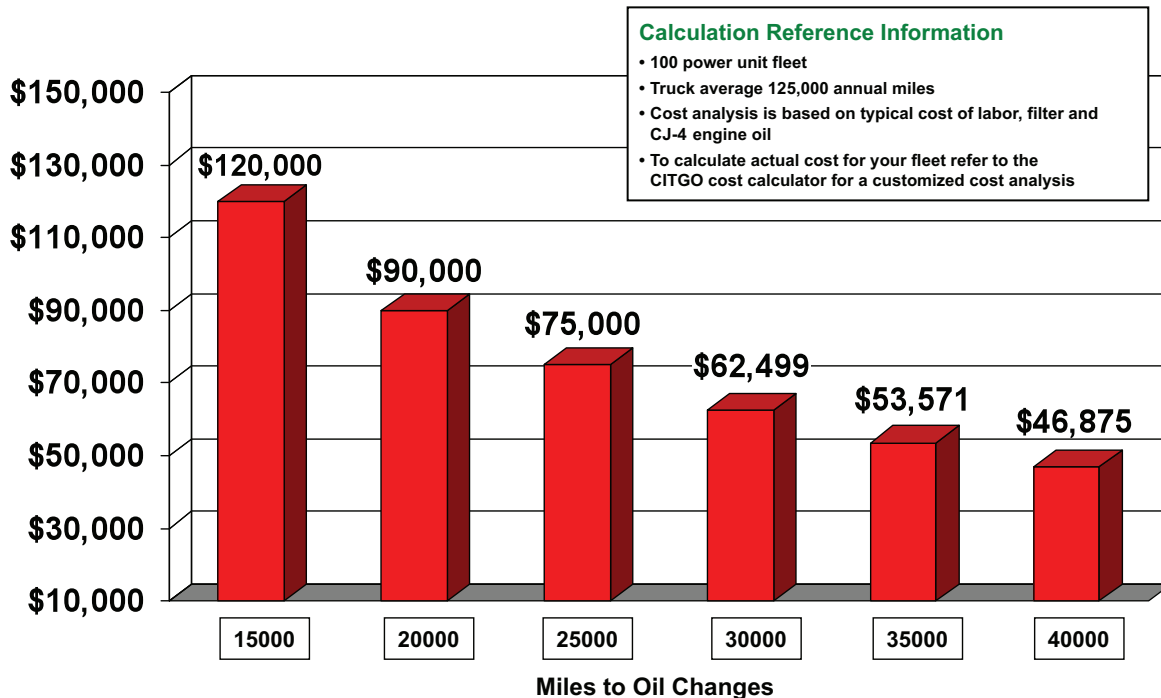
- 100 power unit fleet
- Trucks average 125,000 annual miles
- Compared to present 6.5 average mpg using 15W-40 Oil
- Improved fuel economy of 1.5% using CITGARD 700 10W-30

CITGARD 10W-30

Annual Savings  
VS  
Diesel Cost / Per Gallon

Fuel Pricing for Example Only  
Use your fuel pricing to calculate actual fleet cost savings

## CITGARD 700 Extended Drain Cost Savings



### Calculation Reference Information

- 100 power unit fleet
- Truck average 125,000 annual miles
- Cost analysis is based on typical cost of labor, filter and CJ-4 engine oil
- To calculate actual cost for your fleet refer to the CITGO cost calculator for a customized cost analysis