



CITGO CITGARD 700 Synthetic Blend Engine Oils

CITGARD 700 Synthetic Blend Engine Oils deliver the performance needed for newer engine designs while improving performance in older engines. Engineered with a proprietary additive technology that protects engines running at higher operating temperatures and fuel injection pressures, while meeting tighter wear limits and lower emission requirements.



CITGARD[®]
ENGINE OIL

Why CITGARD 700?

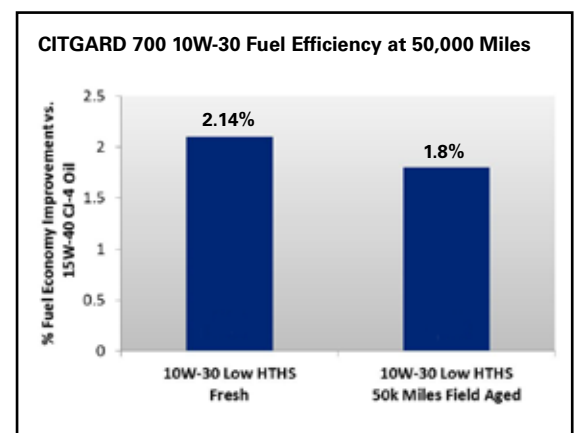
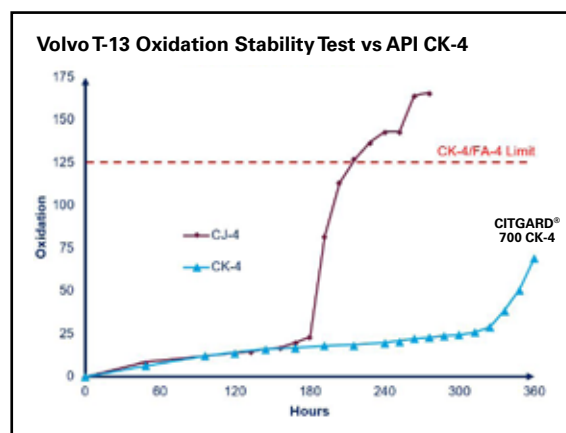
- 1 Optimum engine life
- 2 Sustained fuel efficiency
- 3 Early detection engine preventative maintenance program

- 4 Sustained OEM ODI optimization
 - 5 Improved oil filter efficiency
 - 6 Guaranteed results
- Visit citgolubes.com to learn more*

Customer Expectations	CITGARD 700 Features	Benefits & Advantages
Optimum Engine Life	<ul style="list-style-type: none"> Synthetic Blend fortified Shear stable viscosity improver High Zinc/anti-wear formulation Long lasting TBN technology Reduces oxidation on Volvo T-13 Test by 100% 	<ul style="list-style-type: none"> Designed for the equipment owner that runs equipment longer and needs to maximize engine life Uncompromised diesel protection
Sustained Fuel Economy	<ul style="list-style-type: none"> Combination of synthetic blend and high performance fortified oxidation inhibitors Reduces oxidation on Volvo T-13 Test by 100% 	<ul style="list-style-type: none"> Maintains a 1.8% fuel economy vs. 15W-40 oils at over 50,000 mile ODI
Guaranteed Results	Guaranteed Efficiency Program	<ul style="list-style-type: none"> Test four units on CITGARD 700 10W-30 to achieve a 1.5% fuel efficiency vs. 15W-40 with a money back guarantee
Early Detection Engine PM Program	CITGO LubeAlert Oil Analysis Program	<ul style="list-style-type: none"> Comes with enrollment in LubeAlert Oil Analysis to prevent engine failures, protect warranty and increase unit resale value
Sustained OEM ODI Optimization	<ul style="list-style-type: none"> Synthetic Blend fortified Shear stable viscosity index improver High treat anti-wear formulation Long lasting TBN technology Reduces oxidation on Volvo T-13 Test by 100% 	<ul style="list-style-type: none"> When combined with LubeAlert provides support to achieving the most cost effective OEM recommended ODI
Improves Oil Filter Efficiency	<ul style="list-style-type: none"> CITGARD 700 Soot Arrest Technology maintains soot dispersant capability 	<ul style="list-style-type: none"> Maintains soot dispersancy that reduces oil thickening, improves cold start lubrication and extends time to reaching filter capacity

Fuel Economy Data

CITGARD 700 CK-4 helps to reduce oil oxidation which minimizes any increase in viscosity and therefore maintains fuel efficiency.



Field Test: 75,000 Mile Oil Drain Interval Test with IWX

Product Tested	<ul style="list-style-type: none">• CITGARD 700 MFE Synthetic Blend SAE 10W-30 API FA-4
Type of Conditions	<ul style="list-style-type: none">• Long Haul - Full loads round trip from Springfield, MO. to Arizona• Two driver operation averaging up to 300,000 miles annually• Detroit Diesel 15L engines
Oil Drain Interval	<ul style="list-style-type: none">• 75,000 mile oil change intervals
Engine Component Inspection Results	<ul style="list-style-type: none">• Piston, liner, cam shaft, bearings, timing gears and oil pump all in excellent condition and capable of longer service life

Proven Results: Component Inspection after 75,000 Miles

Piston Rings



All rings free with minimal ring groove deposits

Camshaft



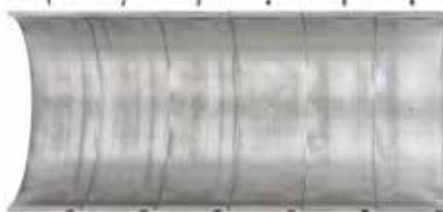
Like new condition-both exhaust and intake lobes

Cylinders



Critical line honing marks all visible in excellent condition

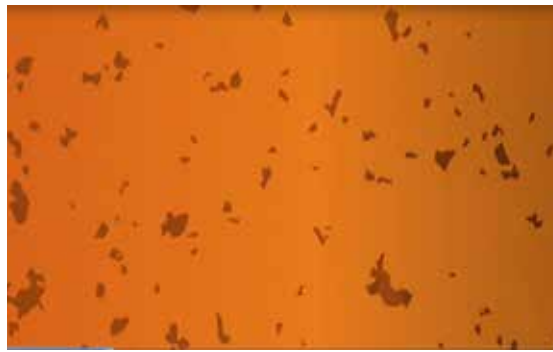
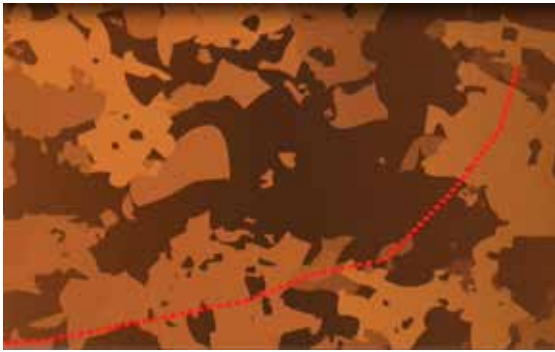
Bearings



Bearings in excellent condition with much longer service life



Optimized Oil Filter Efficiency



Without Soot Arrest Technology

- Poor soot control - soot agglomeration
- Increases soot loading and reaching capacity
- Increased oil thickening reduces oil fluidity with more difficult cold engine cranking
- Increases soot induced engine wear
- Decreased fuel efficiency and increased oil consumption

With CITGARD 700 Soot Arrest Technology

- Maintains soot control over ODI
- Extends time to reaching filter capacity
- Controls soot induced oil thickening
- Protects against soot induced wear
- Improved start up lubrication, fuel efficiency and oil consumption control

How CITGARD 700 Synthetic Blend Pays for Itself

Savings Analysis: 50 Unit Fleet	Premium CK-4 15W-40	CITGARD 700 Synthetic Blend 10W-30 Savings
Annual savings from guaranteed 1.5% fuel efficiency increase versus an SAE 15W-40 engine oil	N/A	+\$28,125
Annual savings from Optimized Drain Interval with LubeAlert™ Oil Analysis	N/A	+\$5,000
Estimated annual cost of oil based on typical price range	-\$2,500	- \$2,500
Net Savings	N/A	\$30,625

