

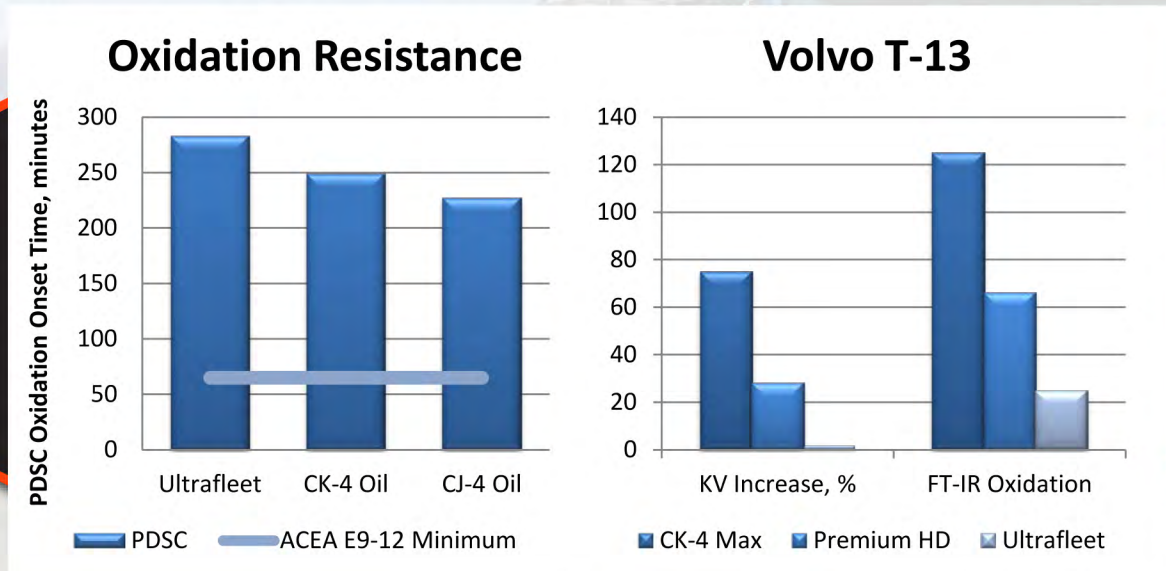


ULTRAFLEET FE API FA-4

Champion UltraFleet® FE Synthetic Blend engine oil is designed to provide industry-leading performance to meet the needs of the next generation of heavy duty engines. Increased power density, reduced oil volume and extended drain intervals place unique demands on engine oils to control oxidation by-products, sludge and deposits. Due to higher shear stress and lower viscosity minimums for engine oils, only oils with the highest wear protection and viscosity stability can maximize the performance and life of advanced diesel engines

Oxidation Control- Champion UltraFleet® FE Synthetic Blend engine oil takes oxidation resistance to another level, allowing users to achieve longer drain intervals, reduce maintenance and downtime, and extend engine life. Controlling oxidation, corrosive acids, sludge and varnish precursors allows for extended drains and minimized wear even under the most extreme conditions. Synthetic base oils provide reduced volatility and oil consumption, further reducing the build-up of sludge and varnish.

- Oxidation lower than OEM limits in over 60,000 mile on-highway and 600 hour off-highway drain intervals
- Proprietary additives and synthetic base oils have shown up to 80% reduction in Volvo T-13 oxidation



Wear Control- Champion UltraFleet® FE Synthetic Blend engine oil keeps your engine going longer by reducing engine wear, preventing high temperature corrosion and controlling abrasive soot contamination, even while allowing for improved fuel economy and lower total cost of ownership. Synthetic base oils improve cold-flow properties and reduce start-up wear, leading to extended engine life and performance.

- Over 75% less pushrod wear, 85% less injector screw wear and 70% better resistance to filter-plugging than CJ-4 oils in proprietary, extra-severe engine testing.
- Outperformed corrosion bench testing limits by 70% for copper and over 98% for lead and tin.
- Over 74% lower cold-pumping and 20% lower cold-cranking viscosity than SAE J300 limits, providing excellent lubrication and wear protection at start up.

CHAMPION BRANDS, L.L.C. › 1001 GOLDEN DRIVE › CLINTON, MO 64735
ORDER DESK 800-821-5693

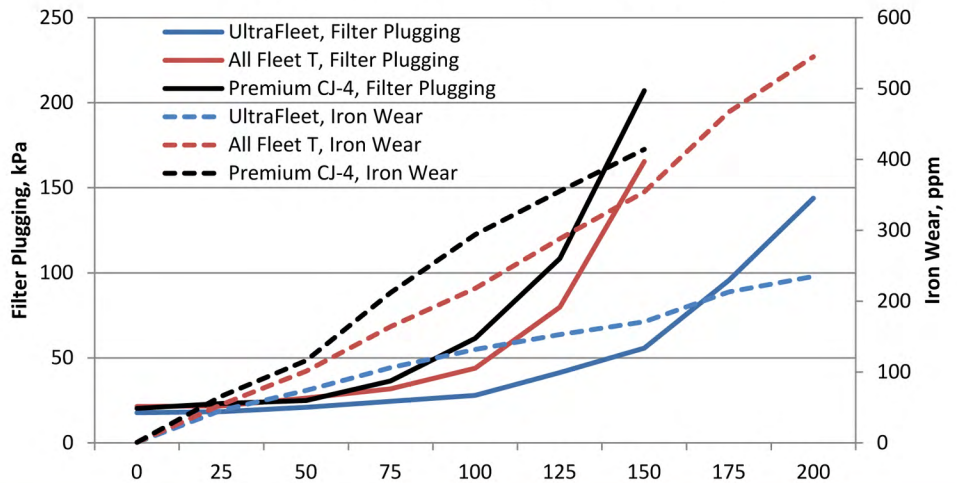
Effective 08/16



ULTRAFLEET FE
API FA-4



Severe-Service Engine Testing



Champion UltraFleet® Synthetic Blend FE Oil meets or exceeds the following specifications:

- **API FA-4**
- **Detroit Diesel DFS93K223**
- **Cummins CES 20087**

	Method	SAE 10W-30
Part Number		4162
Viscosity @ 40°C, cSt	D445	10.0
Viscosity @ 100°C, cSt	D445	66
Viscosity Index	D2270	135
Cold-Cranking Viscosity, cP	D5293	5,600 @ -25°C
Pumping Viscosity, cP	D4684	15,400 @ -30°C
HTHS @ 150°C, cP	D4683	3.1
NOACK Volatility, %	D5800	12
Zinc, ppm	D4951	1250
Phosphorous, ppm	D4951	1140
Oxidation Resistance, mins	D6186	283*
TBN, mgKOH/g	D2896	10.2

*PDSC data collected only in SAE 10W-30, API CK-4 viscosity grade

**Typical properties; does not constitute a specification

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