

FLEET SUPREME ESP CK

Moly & Boron Friction Modified / Optimized Full Synthetic Heavy Duty Diesel Engine Oils







PROTECTION LIKE NOTHING

ELSETM

DESCRIPTION

TRIAX FLEET SUPREME ESP CK is the latest technology in heavy duty engine oils, offering the latest in heavy duty diesel specifications, combined with state-of-the-art tested and true anti-wear technology. All TRIAX Fleet Supreme CK products are full synthetic lubricants developed to comply the latest diesel engine OEM requirements and offer backwards compatibility with virtually all heavy duty diesel engines, both North American and European UHPD (Ultra High Performance Diesel) engines requiring Euro 5 and Euro 5 low SAPS engine oils. TRIAX Fleet Supreme products are all formulated with our proprietary CRP (Continuous Regenerating Plating) technology) designed and HD Efficient Dynamics for friction optimization, reduction, unsurpassed fuel economy and unmatched wear protection. High efficiency detergent system and high retention TBN keep your engine ultra clean and prevent corrosion, acid and maximize overall engine protection to the highest degree.

APPLICATIONS

TRIAX Fleet Supreme CK-4 products are designed to be fully backwards compatible with CJ-4 and Cl-4 plus applications. These lubricants are recommended for 2016 and newer heavy duty diesel engines found in commercial trucks, pickup trucks, construction equipment and agricultural equipment. TRIAX Feet Supreme products are also recommended for the latest diesel engines from Volvo, Renault, Ford, Caterpillar, UHPD (ultra high performance diesel). Applications include heavy on road transportation, off-road, quarrying, mining including server service heavy duty.

PERFORMANCE CHARACTERISTICS

EXTENDED COMPONENT LIFE - continuous, effective shielding of engine parts under high frictional or thermal load effectively doubling their life. This type of plating is extremely resilient, significantly reducing engine wear and effectively doubling component life.

TURBO-CHARGER PROTECTION — Oil left inside the still hot turbocharger pools and having nowhere to go, is rapidly oxidized, becoming a thick sludge and carbon deposits which attach themselves to the turbocharger. TRIAX FLEET SUPREME ESP CK lubricants offer unmatched turbo-charger protection. The high oxidation resistance of the oil and its CRP composition prevents oil burning up inside the turbocharger once the vehicle has been turned off. This extreme resistance to temperature and oxidation virtually doubles turbo-charger life in heavy duty applications.

UP TO 30% IMPROVED OXIDATION vs CK-4 Requirements - significantly reduced oxidation vs industry standards for CK-4 approved products

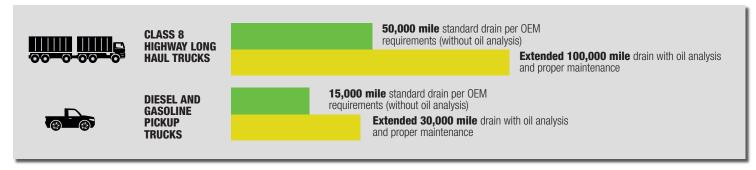
SIGNIFICANTLY EXTENDED DRAIN INTERVALS – TRIAX FLEET SUPREME ESP CK deliver outstanding drain intervals, 100,000 miles or more with oil analysis and proper maintenance, in class 8 transport trucks and triple the drain intervals of regular lubricants for diesel pickup trucks.

DRAMATICALLY LOWER STARTUP / COLD START WEAR – CRP Technology with Moly and Boron coats engine parts faciliting dry lubrication and permits effortless startup with dramatically reduced startup wear.

UNPARALLELED 40% IMPROVEMENT IN SLUDGE / ENGINE DEPOSITS – Unique dispersant and detergent technology exceeds CAT ECF-3 performance by ~40% in deposit control in CAT C13 Engine Test. Keeps pistons clean for longer engine life and reduced oil consumption

FORD SPECIFICATION COMPLIANT— TRIAX FLEET SUPREME ESP CK engine oils in 5W-40, 15W-40 and 10W-30 viscosity grades exceed the Ford required specification for CK-4 lubricants - FORD WSS-M2C171-F1

DRAIN INTERVALS CAPABILITIES





FLEET SUPREME ESP CK

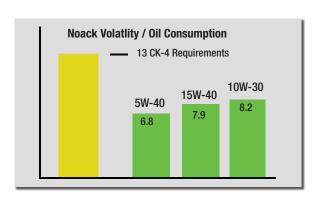
Emission Systems Protection

PROTECTION LIKE NOTHING

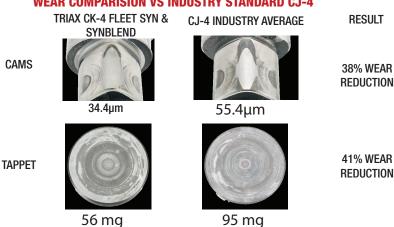
ELSETM

Moly & Boron Friction Modified / Optimized Full Synthetic Heavy Duty Diesel Engine Oils

NOACK VOLATLITY / EVAPORATION UNDER STRESS



WEAR COMPARISION VS INDUSTRY STANDARD CJ-4



PERFORMANCE SUMMARY

- Complete protection for diesel and gasoline emission control systems such as Exhaust Gas Re-Circulation systems (EGR), Selective Catalytic Reduction (SCR) systems and Diesel Particle Filters (DPF).
- Complete compatibility with virtually all major heavy duty diesel engine manufacturers
- Up to 100,000 miles of complete protection per oil change in on highway semi trucks. (may vary based on engine condition)
- Outstanding friction modifying and wear reducing properties, up to 65% drop in friction coefficient vs industry standards
- Significant improvement in overall engine component wear
- Designed for heavy duty trucks for maximum longevity and protection
- State-of-the-art detergent and dispersant package for outstanding deposit control preventing ash clumping and deposits.
- Excellent fluid life and oxidation control, with superior stay-in-grade characteristics
- Permits "dry" lubrication at engine startup and during cold winter months, nearly eliminating engine startup wear and noise
- Permits guick-fill lubrication flow during cold weather start-up, down to -42 C.
- High retention TBN (slow degradation) which provides improved, long term acid neutralization and corrosion protection.
- Provides year-round engine protection even in the most severe operating conditions
- Outstanding stay-in-grade shear stability

PRODUCT SPECIFICATIONS	CHEMICAL INFORMATION	10W-30	15W-40	5W-40	5W-30
• API CK-4, CJ-4, CI-4 Plus, CI-4, CH-4 • API SN (15W-40 ONLY)	Specific Gravity@ 60°F Viscosity, Kinematic	0.8678	0.8617	0.8678	0.8678
 ACEA E9-12, E9-16 CUMMINS CES 20086 MACK EOS 4.5 MB 228.31 DDC 93K222 CATERPILLAR ECF-3 VOLVO VDS-4.5, VDS-4, VDS-3 RENAULT VI RLD-4, RLD-3 MTU TYPE 2.1 DEUTZ DQC III-10 LA FORD WSS-M2C171-F1 MAN 3575 SCANIA LDF-2 	cSt at 40°C cSt at 100°C Viscosity Index Flash Point, °C (°F) Pour Point, °C (°F) Cold Crank, cP at -25°C Color TBN Molybdenum (ppm) Boron (ppm) Nitrogen (ppm) Sulfur (ppm) Sulfated Ash (ppm) Phosphorous (ppm) Zinc (ppm)	74.66 11.1 174 210 (410) -42 (-44) 5,940 5.5 10 142 405 1428 2702 0.97 965 876	103.4 15.30 160 210 (410) -36 (-32.8) 3221 5.5 9 142 405 1428 2702 0.97 1182 890	92.20 15.20 182 210 (410) -42 (-43.6) 5,240 5.5 10 152 453 1320 3270 0.97 1131 876	69.20 11.84 176 210 (410) -42 (-44) 5,940 5.5 10 142 405 1428 2702 0.97 965 876
	NOACK Volatilityy % loss	8.2	7.9	6.8	10

ACTUAL PRODUCTS MAY HAVE SMALL VARIATIONS IN THESE NUMBERS, WHICH IS NORMAL FOR THE MANUFACTURING PROCESS AND DO NOT AFFECT PERFORMANCE