



TRIAX Fleet Atlas

Heavy-Duty Severe-Service Diesel Engine Oil — API CI-4 PLUS — SAE 15W-40 & 20W-50

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DESCRIPTION

TRIAX Fleet Atlas is an advanced anti-wear, anti-corrosion engine oil for severe-service off-road equipment and heavy transport trucks operating under continuous high load, high shear, and contamination. Fortified with molybdenum, boron, high ZDDP levels, and aggressive detergents, it delivers unrivaled protection for diesel and gasoline heavy-duty engines. A high-retention TBN system (longer-lasting than conventional organic TBN boosters) provides excellent acid and corrosion control with strong resistance to ash and water. Friction-modified and anti-wear boosted, Fleet Atlas is engineered for engines built before 2007 that do not require a CJ-4 / CK-4 specification or Euro V emission level.

PERFORMANCE HIGHLIGHTS

- Long drain capability — up to 500 hours protection for off-road severe-service applications, or 50,000-mile drain intervals for highway trucks
- **High ZDDP, molybdenum & boron concentration** — organo-metallic moly-reinforced, friction-optimized chemistry for maximum engine life and extreme anti-wear protection
- **Very high TBN reserves** — high-retention TBN stabilizes oil alkalinity and prevents acid buildup; top-of-the-line anti-acid and anti-corrosion protection
- Superior protection against bore polish, scuffing, and bearing wear; outstanding protection for the engine hot section (pistons, piston rings)
- Superior turbocharger protection — prevents deposits and premature failure in turbo and supercharged engines
- Ideal for older equipment NOT fitted with emission control systems such as SCR, DPF, or DOC
- Superior protection for seals, o-rings, and other rubber components

For engines built before 2007 that do NOT require CJ-4/CK-4 or Euro V/VI emission-system protection (DPF, SCR, DOC, DEF). Drain interval represents the lubricant's capability under normal duty; always follow the OEM service schedule and consult the equipment manual.

SPECIFICATIONS & APPLICATIONS

TRIAX Fleet Atlas is recommended for turbocharged and supercharged off-road equipment and heavy-duty diesel trucks built before 2007 that do not require DPF/SCR/DOC emission-system protection. It meets and exceeds CI-4 PLUS and ACEA E5/E3 for European Euro 4 HD engines, and serves older gasoline engines requiring API SL. Coverage spans older John Deere, Case, Caterpillar, JCB, Hitachi, Terex, Liebherr, and Komatsu equipment, plus MAN, Volvo, Scania, DAF, Iveco, Mercedes-Benz, and Renault trucks.

Meets or exceeds the following API and OEM specifications:

- API CI-4 PLUS, CI-4 / SL
- ACEA E5, E3, E2; A3/B3
- JASO DH-1
- Mack EO-M Premium Plus, EO-L
- Cummins CES 20071, 20072, 20075, 20076, 20077
- Volvo VDS-3, VDS-2; Mercedes-Benz MB 228.3, 228.0
- Caterpillar ECF-1; MAN 271; MTU Type 1; RVI E2 R
- Detroit Diesel (DDA) 93K214; Deutz DQC II, DQC III-2010
- John Deere JDQ-78A
- JCB Standard 4001/2800

TYPICAL PROPERTIES

Parameter (Test Method)	15W-40	20W-50
Viscosity, Kinematic @ 40 °C, cSt (D445)	104.7	137
Viscosity, Kinematic @ 100 °C, cSt (D445)	14.19	17.40
Viscosity Index (D2270)	139	135
Flash Point, °C (°F) (D92)	221 (429)	221 (429)
Pour Point, °C (°F) (D97)	-30 (-22)	-18 (-0.4)
CCS Viscosity @ -25 °C, cP (D5293)	4,589	9,500
Total Base Number, mg KOH/g (D2896)	11	10
HTHS @ 150 °C, cP (D5481)	4.2	5.56
Sulfated Ash, % wt (D874)	1.50	1.50