PRODUCT DATA SHEET

TRIAX Fleet Euro LSAP

Ultra High Performance Full Synthetic Euro VI LSAP Engine Oil for European Trucks

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DESCRIPTION

TRIAX Fleet Euro LSAP is an ultra-high performance full synthetic engine oil line designed for Euro 5 and Euro 6 heavy duty European and North American diesel engines. This product features top of the line base oils, coupled with a next generation additive system designed to provide optimal performance in heavy duty severe service applications.

TRIAX Fleet Euro is a low SAPS lubricant reinforced with TRIAX proprietary molybdenum and boron friction modification and optimization technology, as well as the most advanced detergent and viscosity stabilization technology. TRIAX unique additive packs ensure top performance at the quality criterions wear protection and friction reduction, detergency & dispersancy, corrosion prevention, viscosity temperature dependency, thermal oxidative stability, low evaporation tendency, good elastomer compatibility and almost no environmental impact.

PERFORMANCE HIGHLIGHTS

- Up to 53% Better engine wear protection. Exceeds ACEA, MAN and MB specifications for wear and cleanliness.
- Over 75% better Oxidation control compared to standard API CJ-4 Limits
- Friction modified and optimized using organic Borate and Molybdenum CRP Technology
- Extreme oxidation stability ensures very long oil life and prevent oil oxidative thickening and premature wear
- High retention TBN with extremely slow degradation, lasts 40% longer than regular TBN additives ensuring long term corrosion protection
- Next generation detergent system to keep engines clean and prevent soot / ash damage to pistons and rings
- 2% fuel economy vs 15W-40 and other 10W-40 viscosity grades and up to 6% for 5W-30 viscosity
- Drain interval 150,000 km for European Euro 6 and Euro 5 trucks, 100,000 km for others* (with oil analysis recommended)
- Superior viscosity and shear stability to support long term prevention of viscosity loss

**The above drain intervals reflect the capability of the product, taking into consideration mechanically sound engines and good maintenance practices. Always use oil analysis as engine blow by, coolant leaks and other oil contamination can happen at any time and directly affect the longevity of engine oils.*

SPECIFICATIONS & APPLICATIONS

TRIAX Fleet Euro LSAP products are especially designed for UHPD Euro 5 and Euro 6 engines fitted on European heavy duty highway trucks and buses fitted with the latest emission control systems such as DPF (Diesel Particulate Filters), DOC (Diesel Oxidation Catalyst), SCR (Selective Catalytic Reduction) equipment. This product is fully backwards compatible with previous European Euro 2, 3 and 4 engines for mixed fleet operations and exceeds latest requirements for Mercedes Benz, VOLVO, DAF, IVECO and many other OEMs. It is also recommended for CNG (Compressed Natural Gas) engines from MAN, VOLVO, SCANIA, IVECO, DAF and MERCEDES BENZ.

API CJ-4 Licensed and exceeds the following API and OEM specifications:

- API: CK-4, CJ-4, CI-4, CH-4
- ACEA: E6, E9
- Caterpillar: ECF-3
- Cummins: CES 20081
- DAF & DAF Long Drain
- Deutz: DQC IV-10 LA
- IVECO: NG 2 (meets requirements)
- JASO DH-2
- MACK: EO-O Premium Plus
- MAN: M3477, M3271-1
- MB: 228.51, 228.31
- MTU: Category 3.1
- Renault Trucks: RLD-3
- Volvo: VDS-3 CNG, VDS-4
- Scania Low Ash, LDF-3, LDF-2

TYPICAL PROPERTIES

Parameter (Test Method)	10W-40	5W-30
Viscosity, Kinematic @ 40 °C, cSt (ASTM D445)	**92.4**	**69.7**
Viscosity, Kinematic @ 100 °C, cSt (ASTM D445)	**13.22**	**11.40**
Viscosity Index (ASTM D2270)	**167**	**163**
Flash Point, °C (°F) (ASTM D92)	**234 (453)**	**238 (460)**
Pour Point, °C (°F) (ASTM D97)	**-39 (-38)**	**-41 (-41)**
CCS Viscosity @ °C, cP (ASTM D5293)	**6600 (-25)**	**4400 (-25)**
Total Base Number, mg KOH/g (ASTM D2896)	**10**	**12**
HTHS @ 150 °C, cP (ASTM D5481)	**4.2**	**3.62**
Sulfated Ash, % wt (ASTM D874)	**0.22**	**0.25**

These are typical values. There may be small differences in actual values which are a normal part of production and do not affect product performance.

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