





EKO FORZA FUEL ECONOMY 10W-30 E6/E9

Lubricant for commercial vehicle engines

DESCRIPTION

EKO FORZA FUEL ECONOMY 10W-30 E6/E9 is a synthetic technology lubricant, designed for the highest level of performance in modern low emissions diesel engines operating on and off-highway.

The SAE 10W-30 viscosity grade and the modern technology of the lubricant help fuel saving, compared to SAE 15W-40 and SAE 10W-40 lubricants.

EKO FORZA FUEL ECONOMY 10W-30 E6/E9 meets the current ACEA E6, E7, E9, MB 228.51, VOLVO VDS-4.5 specifications, and other OEM's specifications required for engines meeting the latest EU emission standards Euro 6 and EU stage IV.

EKO FORZA FUEL ECONOMY 10W-30 E6/E9 is particularly recommended for EGR diesel engines fitted with modern exhaust after-treatment systems, such as diesel particulate filters (DPF) and SCR systems.

The formulation of EKO FORZA FUEL ECONOMY 10W-30 E6/E9 provides excellent protection and cleanliness to the engine, thus maximizing performance and increasing its lifespan.

The excellent antioxidant properties of EKO FORZA FUEL ECONOMY 10W-30 E6/E9 contribute to extensive oil-change intervals. Low volatility loss and high resistance to shear provide excellent control of lubricant consumption. The final benefit is the reduction of maintenance costs and operating costs.

EKO FORZA FUEL ECONOMY 10W-30 E6/E9 has excellent fluidity and pumpability characteristics at low temperatures, as demonstrated by the excellent results in the CCS and MRV tests. It thus allows the engine to start easily at low ambient temperatures and minimizes wear at startup.



PRODUCT DATA SHEET



SPECIFICATIONS

ACEA E6, E7, E9, API CK-4, JASO DH-2, MB 228.31, MB 228.51, MB 228.52, MAN M3775, MTU Type 3.1, DEUTZ DQC IV-18 LA, CUMMINS CES 20086, DDC 93K222, CATERPILLAR ECF-3, IVECO 18-1804 TLS E9, DAF Extended drain.

APPROVALS

VOLVO VDS-4.5, MACK EOS-4.5, RENAULT RLD-3.

Suitable for use: API CJ-4, API Cl-4 plus, API Cl-4, API CH-4, VOLVO VDS-4, MACK EO-O Premium Plus, DDC 93K218, CUMMINS 20081.

APPLICATIONS

- Suitable for high-performance EURO 6 and EU Stage IV diesel engines, but also fully compatible with older diesel engines, in which use of EKO FORZA FUEL ECONOMY 10W-30 E6/E9 contributes to performance improvement and increase of oil-change intervals.
- Applications include on-highway transport vehicles operating at high speeds and high loads and off-highway vehicles and equipment operating at low speeds and high loads in applications in constructions, mining, shipping and agriculture.
- Meets the requirements of the specifications of all major European, American and Japanese manufacturers (OEM), it is thus suitable for mixed fleets of various manufacturers and technologies.

ADVANTAGES

EKO FORZA FUEL ECONOMY 10W-30 E6/E9 provides excellent wear protection and excellent oxidation resistance, as demonstrated by the results in critical tests of API CK-4, MB 228.51 and Volvo VDS-4.5 specifications:

- OM646LA Cam Wear test (wear of camshaft inlet and camshaft outlet).
- OM646LA Cylinder Wear test (cylinder wear).
- Mack T-13 KV40 increase test (increase in lubricant viscosity).
- Mack T-13 Oxidation peak height test (protection against oxidation).
- Mack T-13 Average oil consumption test (lubricant consumption).







TYPICAL CHARASTERISTICS

Properties	Methods	Units	EKO FORZA FUEL ECONOMY 10W-30 E6/E9
SAE Viscosity Grade	-	-	10W-30
Density, 15°C	ASTM D4052	g/ml	0.864
Kinematic Viscosity, 100°C	ASTM D445	cSt	11.57
Kinematic Viscosity, 40°C	ASTM D445	cSt	79.34
Viscosity Index (VI)	ASTM D2270	-	138
CCS Viscosity, -25°C	ASTM D5293	сР	5730
Sulfated Ash	ASTM D874	% w/w	1.0
Base Number, TBN	ASTM D2896	mg KOH/g	10.1
Pour Point	ASTM D5950	°C	-39
Flash Point, COC	ASTM D92	°C	234

SPECIAL INSTRUCTIONS

The lubricant recommendation for EURO 6 engines varies depending on the manufacturer. You should always consult the vehicle manual.

HEALTH AND SAFETY

Protect the environment while disposing of used product. Used lubricants should be collected at specific points to ensure they do not pollute the environment. Do not mix with solvents, brake fluids, antifreeze fluids and water, to allow for proper handling.