



## PRODUCT DATA SHEET

### **EKO FORZA PREMIUM 20W-50** Lubricant for commercial vehicle engines

#### **DESCRIPTION**

EKO FORZA PREMIUM 20W-50 is a high quality lubricant, suitable for heavy duty diesel engines operating in demanding on- and off-road applications. EKO FORZA PREMIUM 20W-50 is specially designed for engines with many operating kilometers, in which it provides increased protection throughout the oil-drain period.

#### **SPECIFICATIONS**

ACEA E7, API CI-4, API CF/SL, CATERPILLAR ECF-1a, DTFR 15B110 (228.3), GLOBAL DHD-1, MAN M3275.

#### **APPLICATIONS**

- Heavy-duty, naturally aspirated and turbocharged diesel engines.
- On and off-highway applications.
- Meets the requirements of all major manufacturers allowing for the use of one lubricant for mixed fleets of commercial vehicles and earthmoving equipment of different manufacturers.

#### **ADVANTAGES**

The latest technology additives used in the formulation of EKO FORZA PREMIUM 20W-50, provide performance reserve in critical tests included in ACEA and API standards:

- Excellent performance in oxidation resistance: 35% better than ACEA E7 limits in Oxidation (PDSC) test.
- Excellent performance in corrosion control: >50% better than API CJ-4 limits in Pb Corrosion Control (HTCBT) test.
- Excellent performance in wear control: >50% better than ACEA E7 limits in Mack T12/Cylinder Liner Wear (CLW) test.



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### ADVANTAGES

- Excellent performance in piston cleanliness: 21% better than ACEA E7 limits in OM501LA test.
- Excellent performance in soot control: 55% better than API CJ-4 limits in CUMMINS ISM (Injector Screw Weight Loss) test.

### TYPICAL CHARACTERISTICS

Properties	Methods	Units	EKO FORZA PREMIUM 20W-50
SAE Viscosity Grade	-	-	20W-50
Density, 15°C	ASTM D4052	g/ml	0.894
Kinematic Viscosity, 100°C	ASTM D445	cSt	18.5
Kinematic Viscosity, 40°C	ASTM D445	cSt	165.1
Viscosity Index (VI)	ASTM D2270	-	126
CCS Viscosity, -15°C	ASTM D5293	cP	8500
Base number, TBN	ASTM D2896	mg KOH/g	10.4
Sulfated Ash	ASTM D874	% w/w	1.4
Pour Point	ASTM D5950	°C	-30
Flash Point, COC	ASTM D92	°C	240

### 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.

Issue 7, 3 October 2023

This data sheet provides basic information on the product as at the date of drafting. For further information regarding applications, please contact EKO ABEE Technical Support, tel. +30 210 5509 511.  
Advice on safe handling is provided in the Safety Data Sheet.