



## PRODUCT DATA SHEET



### EKO FORZA PREMIUM 15W-40

Lubricant for commercial vehicle engines

#### DESCRIPTION

EKO FORZA PREMIUM 15W-40 is a high quality lubricant, suitable for EURO 4 and previous diesel engines operating in on and off-road applications.

EKO FORZA PREMIUM 15W-40 is approved by MERCEDES BENZ and VOLVO.

#### SPECIFICATIONS

ACEA E7, API CI-4/CH-4/SL/SJ, CAT ECF-2, CAT ECF-1a, CUMMINS CES 20076/20077/20078, DEUTZ DQC III-10, DDC 93K215, GLOBAL DHD-1, JASO DH-1, MACK EO-M PLUS/EO-M, MTU Type 2. Meets requirements of MAN M 3275-1.

#### APPROVALS

“MB-Approval 228.3”, VOLVO VDS-3, RENAULT VI RLD-2, MACK EO-N.

**Suitable for use:** API CG-4, API CF-4, MB 228.1.

#### APPLICATIONS

- Naturally aspirated and turbocharged diesel engines of European, Japanese and US manufacturers.
- Light and heavy-duty transport vehicles and off-road equipment operating in farming, quarries, mines and construction.
- Suitable for mixed fleets of different manufacturers and technologies.



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### ADVANTAGES

The latest technology additives used in the formulation of EKO FORZA PREMIUM 15W-40, provide performance reserve in critical tests included in ACEA and API standards:

- Excellent performance in oxidation resistance: 40% better than API CI-4 limits in Sequence IIIF test.
- Excellent performance in piston cleanliness: 28% better than API CI-4 limits in TGF (of Cat 1K) test.
- Excellent performance in soot control: 20% better than API CI-4 limits in Mack T-8E test.
- Excellent performance in wear control: 40% better than API CI-4 limits in Mack T-12/Top ring weight loss test.
- Excellent performance in lubricant consumption: 30% lower lubricant consumption than API CI-4 limits in Mack T-12/Oil consumption test.

### TYPICAL CHARACTERISTICS

Properties	Methods	Units	EKO FORZA PREMIUM 15W-40
SAE Viscosity Grade	-	-	15W-40
Density, 15°C	ASTM D4052	g/ml	0.885
Kinematic Viscosity, 100°C	ASTM D445	cSt	14.57
Kinematic Viscosity, 40°C	ASTM D445	cSt	106.1
Viscosity Index (VI)	ASTM D2270	-	141
CCS Viscosity, -20°C	ASTM D5293	cP	6750
Sulfated Ash	ASTM D874	% w/w	11.8
Base Number, TBN	ASTM D2896	mg KOH/g	1.4
Pour Point	ASTM D5950	°C	-36
Flash Point, COC	ASTM D92	°C	228

### 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.

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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 and +30 210 7725 418. Advice on safe handling is provided in the Safety Data Sheet.