

DESCRIPTION



Supergrade BFL Extra 10W30

Multifunctional low SAPS lubricant, specially developed for the EMKA Fluid Concept



1. APPLICATION

Supergrade BFL Extra 10W30 is a multifunctional lubricant that was developed for machines in construction, agriculture and forestry and also provides fuel economy. It is used in engines, hydraulic systems, manual and Powershift-transmissions and thus contributes to the rationalization of types.

Supergrade BFL Extra 10W30 can be used in 3 functions:

Motor:

It can be used in commercial vehicle diesel engines (with/without particle filter) with the latest engine and emission-reducing technology that comply with the exhaust emission standards TIER 4 Final, Stage 4i, Stage IV, Stage IIIB. Also can be used in older generations according to Stage IIIA, Stage II, Stage I, Stage 1, 2, 3. This oil is also highly recommended the use of low-sulphur fuels and engines with diesel particulate filters.

Manual an Powershift-transmissions:

Supergrade BFL Extra 10W30 can be used in all generations of manual transmissions as well as in Powershift-transmissions.

Hydraulic systems:

Supergrade BFL Extra 10W30 can be used in all hydraulic systems, whether high or low pressure, even if high-performance filters are integrated in the flow and/or return in the system circuit.

Supergrade BFL Extra 10W30 can be used at any time of the year because of its high viscosity index and its low Pourpoint of -45°C. It offers a wide range of applications, with excellent cold start properties and the best possible minimization of wear and oxidation.

2. YOUR BENEFIT

Sort rationalization - Security - Cost reduction

- The stocking of many special products is no longer necessary.
- Reaches the highest level of quality required by aggregate manufacturers
- Damage caused by mixing up the lubricants is avoided.
- Extended oil change intervals are possible under certain conditions.
- Because of the low ash content, it is also suitable for use in engines with exhaust aftertreatment systems.



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3. TECHNICAL SPECIFICATIONS

Can be used with:

Motor:

ACEA E11, E8, E7;
API CK-4, API CJ-4, API CI-4+, API CI-4, API CH-4, API SN;
CATERPILLAR ECF-3/ECF-2/ECF-1a; DAF PSQL 2.1E LD/2.1E/Extended Drain;
CUMMINS 20086/81/78/77/76; Detroit Diesel 93K222; Deutz DQC IV-18 LA(TTCD)/IV-10 LA;
Global DHD-1; JASO DH-2/DH-1; KOMATSU EO-DH2; Iveco 18-1804 TLS E9;
Daimler Truck DTFR 15C120(MB 228.52)/DTFR 15C110(MB 228.51)/DTFR 15C100(MB 228.31);
DTFR 15B120(MB 228.5)/DTFR 15B110(MB 228.3);
Liebherr LH-00-ENG3A LA/LH-00-ENG LA; MTU Type 3.1/Type 2.1;
MAN M 3677/M 3477/M 3775/M 3275-1/M 3575;
MACK EO-S 4.5/EO-O PREMIUM PLUS; Scania LA; Ford WSS-M2C 171-F1;
RENAULT TRUCKS RLD-4/RLD-3/RGD; VOLVO VDS-4.5/VDS-4/VDS-3/CNG;

Getriebe:

API GL-4/SAE 30;
ALLISON C-4/TES 439;
CATERPILLAR SATO;
CATERPILLAR TO-4 (SAE 10W/30);
KOMATSU CLUTCH: TO-10,30;
ZF TE-ML 07D;

Hydrauliksysteme:

DIN 51524-3 HVLP-D / ISO VG 46 (nach 100 Bh)/HV;

Einsetzbar wie folgende Produkte:

CATERPILLAR HYDRO ADVANCED 10/30;
CNH MAT 3509 – CASE MS 1230;
JCMS HK 46L (Extended Drain);
KOMATSU HO-46 (HV)/HO 46-HM/HO 56-HE/HO-MVK;



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Quality engineered in Germany

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4. TECHNICAL CHARACTERISTICS

Properties	Data	Units	Test
Color	yellow/brown		Visually
Density at 15°C	861	Kg/m ³	DIN EN ISO 12185:1997-11
Kin. Viscosity at 40°C	74,3	mm ² /s	DIN ISO 51562-2:1988-12
Kin. Viscosity at 100°C	12,3	mm ² /s	DIN ISO 51562-2:1988-12
Viscosity Index	164		DIN ISO 2909:2004-08
Flashpoint	221	°C	DIN EN ISO 2592:2018-01
Pourpoint	-45	°C	ASTM D 7346:2015
Sulfatet Ash	01,0	ma%	DIN 51575:2016-06
Total Base Number (TBN)	10,1	MgKOH/g	ASTM D 2896:2015

5. PACKAGING

CONTENTS

ART.NO.

Tankware
205 Liter

0249000
0249010

CONTENTS

60 Liter
20 Liter

ART.NO.

0249020
0249030

