

Semi-synthetic oil.

A top-of-the-range fluid for the lubrication of diesel engines which meet Tier 3 (Stage IIIA) emission standards for construction and agricultural vehicles and equipment or EURO V and later standards for HGVs and buses.

Compatible with the extended oil change intervals recommended by the main manufacturers.

PERFORMANCES

Standards :

ACEA E7/E5/E3

API CI-4/CH-4/CG-4

Specifications :

VOLVO VDS-2

MERCEDES MB p228.3

MAN M 3275

RVI RLD/RLD-2

Cummins CES 20077/78

ALLISON C4

MACK EO-M Plus

Caterpillar ECF-2, ECF-1a

ORGANISATIONS & MANUFACTURERS - Scope of application -

ACEA E7: For Euro I/II/III/IV/V systems having EGR and SCR without DPF, extended oil change interval.

ACEA E5: European standard for HGV or industrial engines meeting the Euro 0/1/2/3 criteria (obsolete standards).

ACEA E3: This class of engine oils control deposits on pistons, cylinder wear and accumulation of deposits, as well as the stability of the lubricant, effectively. These oils are used in diesel engines that are compliant with the EURO 1 and EURO 2 emission standards in severe conditions. They are also perfectly suited to long oil change intervals as specified by the manufacturer. More or less equivalent to MB 228.3, MAN 3275.

API CI-4: Standard since 2002 for engine fitted with EGR.

API CH-4/CG-4: American standard in force since 1998.

MERCEDES MB p228.3: For engines **without DPF**/standard oil change interval (ACEA E3/E5) from 20,000 to 60,000 km.

MAN M 3275: For Euro 0/1/2/ engines/standard oil change intervals (ACEA E3/E5) of 60,000 km max.

Cummins CES 20077: For Cummins engine requiring an API CI-4 oil.

CAT ECF-1a: Specification introduced in 2007 as replacement for the ECF-1 specification. Applies to all 2006 and earlier diesel engines used on the road, series 3500 Caterpillar diesel engines and small commercial engines and for machines incorporating ACERT technology. These oils must either meet the CH-4 standard, have a sulphated ash content < 1.3% and have passed the CAT 1P test first time, or meet the CH-4 standard, have a sulphated ash content of 1.3% to 1.5% and have passed the CAT 1P test twice.

CAT ECF-2: Specification introduced in 2007, and applicable to all 2006 and earlier Caterpillar diesel engines used on the road, series 3500 Caterpillar diesel engines, small commercial engines and to machines incorporating ACERT technology. These oils must meet either the CI-4 standard, or the CI-4 Plus standard and have a maximum content of 1.5% sulphated ash

Characteristics	Standards	Units	Values
Density at 15°C	NFT 60-101	Kg/m ³	871
Viscosity at 40°C	ASTM D445	mm ² /s	66
Viscosity at 100°C	NFT 60-100	mm ² /s	10.7
Index viscosity	NF T 60-136	-	151
Viscosity at -25°C	ASTM D 2602	mPa.s	5900
Pour point	NF T 60-105	°C	-36
VO Flash point	NF T 60-118	°C	234
TBN (Alkalinity reserve)	ASTM D 2896	mg KOH/g	11.9

Characteristics are given for information only and correspond with our manufacturing standards. IGOL reserves the right to modify them to provide its customers with the benefits of technical progress. Before using this product read the instructions for use and the environmental impacts mentioned in the technical and safety data sheets. The information given above is based on the current level of knowledge relative to the product concerned. The product user should take all useful precautions relative to its use. IGOL can in no circumstances be held responsible for damage resulting from incorrect use.

Documentary reference : III-IGOL013-1702
Date of issue : 27/02/2017