

## Semi-synthetic oil

Ultra High Performance Truck (UHPD) Low SAPS and Fuel Economy engine lubricant

### PERFORMANCES

#### Standards :

ACEA E7 / E8 / E11 / E9-16 / E6-16  
API CK-4 / CJ-4 / SN  
JASO DH-2

#### Spécifications :

**VOLVO VDS-4.5\***  
**RENAULT VI RLD-3\***  
**MACK EO-O 4.5\***  
**MERCEDES MB 228.51\***  
**SCANIA LOW ASH\***  
DAF PSQL 2.1E LD  
DAF motorisations Euro VI  
MTU Type 3.1  
DEUTZ DQC IV-10 LA  
MAN M 3677 / 3575 / 3477  
CUMMINS CES 20086 / 20081  
CATERPILLAR ECF-3  
CNH MAT 3521  
ZF TE-ML 03A-03K  
JCB 4001/3000

\* **Approved quality.** Recommended under the manufacturer's warranty

### ADVANTAGES

Resulting from the know-how of our R&D laboratory, **IGOL PRO 450X** is a high-performance lubricant specially adapted to the latest generation of heavy-duty diesel engines equipped with after-treatment systems (DPF-DPF-SCR-EGR-Ad Blue) and able to reach the maximum oil change intervals recommended by the manufacturers

- ✓ SAE 10W-30 viscosity grade for **fuel economy**.
- ✓ **Low Ash** formulation for protection against particulate filter clogging.
- ✓ Compatible with recent anti-pollution standards: **Euro VI - TIER 5 - Stage V**
- ✓ Ideal for **rationalization** in the case of a multi-brand fleet.
- ✓ Optimizes engine cleanliness.
- ✓ Reduces deposit formation on pistons.

Technical data sheet



## PHYSICO-CHEMICAL PROPERTIES

Characteristics	Standards	Units	Values
Density at 20°C	ASTM D4052	g/cm <sup>3</sup>	0.868
Viscosity at 40°C	ASTM D7042	mm <sup>2</sup> /s	82.6
Viscosity at 100°C	ASTM D7042	mm <sup>2</sup> /s	12.2
HTHS viscosity	ASTM D4683	mPa s	3.68
Viscosity index	ASTM D2270	-	143
Pour point	ASTM D97 B	°C	-44
CCS at -25°C	ASTM D5293-20	mPa.s	6309
COC flash point	ASTM D92	°C	228
TBN (Alkalinity reserve)	ASTM D2896	Mg KOH/g	10.5

**IGOL PRO 450X** is miscible with most conventional oils but to ensure its performance level it is recommended that a complete oil change be carried out.

*Note: Before use, always check the manufacturer's recommendations*

*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-IGOL027  
Date of issue : 22/11/2021

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