

100% Synthetic oil

Ultra High Performance Truck (UHPD) Low SAPS engine lubricant

PERFORMANCES

Standards :

ACEA E9-16
API CK-4 / CJ-4

Spécifications :

VOLVO VDS-4.5
RENAULT VI RLD-3
MACK EO-O 4.5
MERCEDES MB 228.31
DETROIT DIESEL DFS 93K222
DEUTZ DQC III-10 LA
MTU 2.1
CUMMINS CES 20086 / 20081
CATERPILLAR ECF-3

ADVANTAGES

Resulting from the know-how of our **IGOL** laboratory, **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

The SAE 5W-40 grade is specifically designed for applications in very cold areas (winter climates, ski resorts, cold rooms, industries) where optimal lubrication is required in negative temperatures.

- ✓ **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.
- ✓ Increased shear stability, **HTHS measurement above 3.5 mPaS**



PHYSICO-CHEMICAL PROPERTIES

Characteristics	Standards	Units	Values
Density at 20°C	ASTM D4052	g/cm ³	0.852
Viscosity at 40°C	ASTM D7042	mm ² /s	90.2
Viscosity at 100°C	ASTM D7042	mm ² /s	14.6
HTHS viscosity	ASTM D4683	mPa s	3.89
Viscosity index	ASTM D2270	-	169
Pour point	ASTM D97 B	°C	-44
CCS at -25°C	ASTM D5293-20	mPa.s	6213
COC flash point	ASTM D92	°C	223
TBN (Alkalinity reserve)	ASTM D2896	Mg KOH/g	11.89

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.

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Technical data sheet

