

Synthetic lubricant based on "Low SAPS" and Fuel Eco additives, intended for the lubrication of the latest generation of engines equipped with after-treatment systems meeting the Euro VI Step D standard.

### PERFORMANCES

#### API FA-4

API FA-4 lubricants are specifically developed to optimise fuel economy in certain high-speed four-stroke diesel engines and to meet greenhouse gas (GHG) emission standards. These oils are formulated for on-road use with diesel fuel sulphur content up to 15 ppm. Particularly effective in maintaining emission control system durability when particulate filters and other advanced aftertreatment systems are used. API FA-4 oils have a high temperature high shear viscosity (HTHS) of 2.9 cP to 3.2 cP to again help reduce GHG emissions..

**Spécifications :**

- DAIMLER DTFR 15C130 ( Old MB 228.61 )**
- VOLVO VDS-5
- RENAULT RLD-5
- MACK EO-S-5
- FORD M2C214-B1
- CUMMINS CES 20087
- DFS 93K223
- GLOBAL FH-2

**This lubricant meets the performance levels VDS-5, RLD-5 and MACK EOS-5 required on engines Euro VI Step D**

\* **Approved quality.** Recommended for use under manufacturer's warranty.

### ADVANTAGES

The **PRO 610X** formulation offers the following advantages :

- ✓ High performance and versatile lubricant technology, fuel economy up to 0.5%, oxidation and shear stability.
- ✓ Developed to meet the **DAIMLER DTFR 15C130** specification of Mercedes Benz OM 470 FE1 and OM 471 FE1 engines to reduce fuel consumption.
- ✓ **PRO 610X** is also designed for the new generation engines of VOLVO TRUCK D13K5 - D13K6 standard **VDS-5** and RENAULT TRUCK DTI 13L standard **RLD-5** and enters the spectrum of the EURO VI Step D standard
- ✓ Extend the drain intervals according to the manufacturers' recommendations.



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**This lubricant is not backwards compatible with the previous specifications.**

## PHYSICO-CHEMICAL PROPERTIES

Characteristics	Standards	Units	Values
Density at 15°C	ASTM D4052	g/cm <sup>3</sup>	0.855
Kinematic viscosity at 40°C	ASTM D7042	mm <sup>2</sup> /s	57.8
Kinematic viscosity at 100°C	ASTM D7042	mm <sup>2</sup> /s	9.7
HTHS	ASTM D4683	cP	3.04
Viscosity Index	ASTM D2270	-	154
Pour Point	ASTM D97 B	°C	-44
CCS at -30°C	ASTM D5293	cP	6216
Flash Point	ASTM D92	°C	228
Sulfated Ash	ASTM D874	%m/m	≤1
Noack Volatility	ASTM D5800	%m	10.8
TBN	ASTM D2896	Mg KOH/g	10.7

*Note: Before use, always check the manufacturer's recommendations in the maintenance manual.*

*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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