

A low-SAPS synthetic lubricant, employing Fuel Economy technology, developed for the latest generation of engines which meet the Euro VI standards. This lubricant is also compatible with earlier powertrains.

PRO 350X FE complies with the standards limiting pollutant emissions: Tier 4 Final (Stage IV).

PERFORMANCE DATA

Standards: ACEA E7/E6/E9
API CI-4/API CJ-4

Specifications:
MB 228.51
MAN M3477
MTU TYPE 3.1
VDS-4 / VDS-3
RLD-3 / RLD-2
MACK EO-N / EO-O PP
CUMMINS 20081
CATERPILLAR ECF-1-a / ECF-3
DEUTZ DQC IV-10 LA / III-10 LA
ZF TE-ML 03A

BODIES and MANUFACTURERS – Field of application –

ACEA E9: for Euro 3/4/5/6 engines equipped with EGR* and NOx treatment.

ACEA E7: for Euro 3/4/5 engines equipped with EGR* and NOx treatment but not DPF**, extended oil change intervals. Meets the old standards ACEA E5/E3, now obsolete.

ACEA E6: for Euro 1/2/3/4/5 systems recommended for engines fitted with EGR*, SCR and DPF, extended oil change intervals.

API CJ-4: standard since 2007 with DPF** exhaust gas purification system.

VOLVO VDS-4: for Euro 3/4/5/6 Volvo engines (ACEA E9) / Extended oil change intervals of 100,000 km max.

MB 228.51: for engines fitted with DPF** / Extended oil change intervals (ACEA E6) of up to 120,000 km.

RENAULT RLD-3: ACEA E9-08 + Volvo VDS-4.

MAN M3477: for Euro 4/5 engines requiring a low-SAPS oil / Extended oil change intervals (ACEA E6) of up to 100,000 km.

CUMMINS CES 20081: for Cummins engines with EGR* requiring an API CJ-4 oil.

MTU Type 3.1: A multigrade oil containing low-ash additives.

Caterpillar ECF-3 / 1-a: to meet the requirements of non-road vehicles, in Caterpillar engines produced in 2007 equipped with DPF** / Oil change interval of 500 h.

Deutz DQC IV-10 LA: a very high-performance, low-ash oil for diesel engines, providing maximum efficiency with closed engine block ventilation and/or with very high thermal stress.

* EGR: Exhaust Gas Recirculation, a system added to the exhaust line to combat pollution.

** DPF: Diesel Particulate Filter

ADVANTAGES

The PRO 350X formulation offers the following advantages:

- Fuel savings of up to 1% compared to a 15W-40 ACEA E7 oil, according to the OM 501 FE test (€1330 fuel saving or an additional 1900 km per year, for 1 vehicle).
- Low sulphate, phosphorus and sulphur content, in compliance with the latest pollution control technologies (EGR, DPF, SCR,...).
- Longer oil change intervals, in accordance with the manufacturers' recommendations.

The performance improvements enabled by PRO 350X minimise over the long term:

- the degradation of the oil due to oxidation.
- corrosion of the engine.
- engine wear.
- the build-up of deposits in the engine.

Characteristics	Standards	Units	Values
Density at 15°C	ASTM D 1298	g/ml	0.8640
Viscosity at 40°C	ASTM D445	mm ² /s	79.34
Viscosity at 100°C	ASTM D445	mm ² /s	12.26
Viscosity index	NF T 60-136	-	151
Pour point	ASTM D2602	°C	-39
Viscosity at -25°C	ASTM D2602	mPa.s	6110
HTHS viscosity	CEC L-36-A-90	mPa.s	3.65
TBN	DIN ISO 3771	mg KOH/g	10.2
Ash content	ASTM D 874	g/100g	1.0

The characteristics are given purely for information and are consistent with our current production standards. IGOL reserves the right to modify them, in order to pass on technical developments to its customers. Before using this product, you should consult the instructions for use and the environmental impact shown on the technical and safety data sheets. The information given above is based on the current state of our knowledge of the product in question. The product user should take all relevant precautions relating to its use. Under no circumstances may IGOL be held liable for damages resulting from misuse.

Document Ref.: III-IGOL016-1703
Published: 12/07/2017