



PALLAS 2000 5W30

100% SYNTHETIC « FUEL ECO » U.H.P.D. LUBRICANT FOR LOW EMISSION DIESEL ENGINES AND FUEL SAVINGS



INDUSTRIAL VEHICLES RANGE

ENGINE
100% SYNTHETIC
SAE 5W-30

Mineral

Semi-synthetic

100%
synthetic

STANDARDS AND SPECIFICATIONS

ACEA 2022 E8, E7, E11
API CK-4
MAN M 3677
DAIMLER TRUCK DTFR 15C110
DAIMLER TRUCK DTFR 15C120
VOLVO VDS-4.5
SCANIA LDF-4

Engine cleanliness

Oxidation resistance

Shear stability



APPLICATIONS

PALLAS 2000 5W30 is an oil called "Fuel ECO" : meet the most severe requirements of professional last diesel 4 stroke engines , particularly in terms of emissions, fuel saving and very long periods between oil changes.

PALLAS 2000 5W30 is ideally suited for engines with DPF (particle filter) requiring a 5W30 grade (RENAULT, MERCEDES, MAN) and is recommended for low emission engines meeting EURO VI and Tier 4f emission norms.

PALLAS 2000 5W30 enables **optimum fuel savings** (around 1 litre for 100 km), in particular in relation to SAE 15W40 grade oils.

PALLAS 2000 5W30 authorises, under normal analytical inspection, oil change periods up to **150 000 km** (according to manufacturer requirements) under intensive service conditions.

PALLAS 2000 5W30 can be used when VOLVO VDS-5 specification is requested.

BENEFITS

PALLAS 2000 5W30 is formulated to allow :

- An excellent thermal stability which allows a better cold start
- An improvement in ventilation control (ability to release air that is entrained in the oil).
- A better stability to oxidation assuring to increase oil change intervals.
- A shearing stability, ensuring its SAE 5W30 grade preservation.

PALLAS 2000 5W30 offers an exceptional protection against wear resulting in :

- Unrivalled piston cleanliness,
- Remarkable protection against liner polishing.



TECHNICAL DATA SHEET

PERFORMANCES

APPROVALS

Approval certificates available on request

DAIMLER TRUCK DTFR 15C110
DAIMLER TRUCK DTFR 15C120
MACK EOS-4.5
MAN M 3677
RENAULT VI RLD-3
SCANIA LDF-4
VOLVO VDS-4.5

ACEA 2016 : E6, E7, E9
ACEA 2022 : E8, E7, E11
API CK-4/SN

PERFORMANCE LEVELS

CATERPILLAR ECF-3
CUMMINS CES 20086
DAF PSQL 2.1 E LD
DETROIT DIESEL 93K222
DEUTZ DQC IV-18 LA
DTFR 15C100 (MB 228.31)
FORD WSS-M2C213-A1
JASO DH-2
MAN M 3477 / M 3775 / M 3691
MB 228.51 / MB 228.52
MTU Type 3.1
SCANIA LOW ASH
Voith retarder Oil Class B

Suitable for EURO VI engines from DAF manufacturer requiring ACEA E6 in 5W30

CHARACTERISTICS

CHARACTERISTICS	UNITS	METHODS	TYPICAL DATA
SAE grade	-	-	5W-30
Density at 20°C	-	NF EN ISO 12185	853
Kinematic viscosity at 40°C	mm ² /s	NF T 60-100	68.8
Kinematic viscosity at 100°C	mm ² /s	NF T 60-100	11.6
Viscosity index	-	NF T 60-136	164
Dynamic viscosity at -30°C	mPa.s	ASTM D 5293	5 239
Pour point	°C	NF T 60-105	-45
Flash point	°C	NF T 60-118	206
Sulfated ash content	% weight	NF T 60-143	0.79
Phosphorous content	ppm	NF T 60-143	0.066
Sulphur content	ppm	NF T 60-143	0.18
NOACK	% poids	CEC L-40-A-93	12.4
TBN	mg KOH/g	ASTM D 2896	9.8

This typical data is given for information only

HEALTH, SAFETY AND ENVIRONMENT

Elimination must be carried out to conform to the rules set for the disposal of used lubricants.

Must be stored away from bad weather.

Should you need further details, our Technical Department remains at your entire disposal.