



RAVENOL Expert SHPD SAE 5W-30



ART.-NR. 1121104

1 L | 1121104-001
5 L | 1121104-005
7 L | 1121104-007
10 L | 1121104-010
20 L | 1121104-020
20 L | 1119106-B20
60 L | 1211145-060
60 L | 1116102-D60
208 L | 1111127-208
208 L | 1111127-D28

VISCOSITY 5W-30

SPECIFICATIONS API CI-4 |API SL |ACEA E7 |ACEA E5 |ACEA E3 |ACEA A3 |ACEA B4

FABRICATION SYNTHETIC

RECOMMENDATIONS CATERPILLAR ECF-2, CATERPILLAR ECF-1A, CUMMINS CES 200071, CUMMINS CES 200072, CUMMINS CES 200076, CUMMINS CES 200078, DDC 93K215, DEUTZ DQC III-10, GLOBAL DHD-1, MACK EO-N, MACK EO-M PLUS, MAN M 3275-1, MB 228.1, MB 228.3, MB 228.5, MB 229.1, MB 235.28,&NBSP;

RAVENOL Expert SHPD SAE 5W-30 is a high-alloyed SHPD low-friction engine oil for commercial vehicles. Due to the formulation with synthetic base oils, the viscosity range 5W-30 could be realized.

RAVENOL Expert SHPD SAE 5W-30 ensures a reliable cold start at low outside temperatures and full lubricity at high operating temperatures thanks to the SAE 5W-30 viscosity range. Friction losses and wear are reduced.

RAVENOL Expert SHPD SAE 5W-30 was designed as SHPD engine oil (Super High Performance Diesel) for use in turbocharged and non-turbocharged engines.

Application Notes

RAVENOL Expert SHPD SAE 5W-30 is a year-round high performance engine oil designed for the truck fleet and buses according to the specified specifications.

RAVENOL Expert SHPD SAE 5W-30 is universally applicable in truck diesel engines with and without turbocharging. It can be used for EURO 4 engines. Please follow the manufacturer's instructions.

Characteristics

RAVENOL Expert SHPD SAE 10W-40 offers:

- High wear protection
- Excellent oxidation stability
- Excellent high temperature stability
- Excellent detergent and dispersant properties
- Economy due to low fuel consumption
- Long life due to high oxidation stability
- Excellent cold start behavior



- Very good viscosity-temperature behavior
- Low evaporation tendency

Property	Unit	Data	Audit
Density at 20°C	kg/m ³	851,0	EN ISO 12185
Colour		gelbbraun	visual
Viscosity at 100°C	mm ² /s	12,2	DIN 51562-1
Viscosity at 40°C	mm ² /s	74,2	DIN 51562-1
Viscosity index VI		161	DIN ISO 2909
HTHS at 150°C	mP?*s	3,53	ASTM D5481
CCS Viscosity at -30°C	mPa*s	6340	ASTM D5293
Low Temp. Pumping viscosity (MRV) bei -35°C	mPa*s	25.890	ASTM D4684
Pourpoint	°C	-42	DIN ISO 3016
Noack Volatility	% M/M	8,3	ASTM D5800
Flash point	°C	228	DIN ISO 2592
TBN	mg KOH/g	10,7	ASTM D2896
Sulphated ash	%wt.	1,29	DIN 51 575

All information correspond to the best of our knowledge to the actual situation of the cognitions and our development. Subject to alterations. All references made to DIN-norms are only for the description of the goods. There is no guarantee. In case there will be any problems please contact the technical service.

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