



- 1 L | 1121104-001
- 5 L | 1121104-005
- 10 L | 1121104-010
- 20 L | 1121104-020
- 20 L | 1121104-B20
- 20 L | 1121104-B20
- 60 L | 1121104-060
- 60 L | 1121104-D60
- 208 L | 1121104-208
- 208 L | 1121104-D28
- 1000 L | 1121104-700

## RAVENOL EXPERT SHPD SAE 5W-30

**Category** Truck engine oil

**Item number** 1121104

**Viscosity** 5W-30

**Specification** ACEA A3/B4, ACEA E3, ACEA E5, ACEA E7, API CI-4, API SL

**Oil type** Synthetic

**Recommendation** Caterpillar ECF-1a, Caterpillar ECF-2, Cummins CES 20071, Cummins CES 20072, Cummins CES 20076, Cummins CES 20078, Detroit Diesel DDC 93K215, Deutz DQC III-10, Global DHD-1, Mack EO-M Plus, Mack EO-N, MAN M 3275-1, MB 228.1, MB 228.3, MB 228.5, MB 229.1, MB 235.28, MTU Typ 2, Renault VI RLD-2, VOLVO VDS-3

**Application** Truck, Agricultural machinery

**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 Note

**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, EURO 5 and EURO 6 engines. Please follow the manufacturer's instructions.

### Technical Product Data

Density at 20 °C	851,0	kg/m <sup>3</sup>	EN ISO 12185
Colour	gelbbraun		VISUELL
Viscosity at 100 °C	12,2	mm <sup>2</sup> /s	DIN 51562-1
Viscosity at 40 °C	74,2	mm <sup>2</sup> /s	DIN 51562-1

Viscosity Index VI	161		DIN ISO 2909
HTHS Viscosity at 150 °C	3,53	mPa*s	ASTM D5481
CCS Viscosity at -30 °C	6340	mPa*s	ASTM D5293
Low Temp. Pumping viscosity (MRV) at -35 °C	25.890	mPa*s	ASTM D4684
Pourpoint	-42	°C	DIN ISO 3016
Noack Volatility	8,3	% M/M	ASTM D5800
Flashpoint	228	°C	DIN EN ISO 2592
tbn	10,7	mg KOH/g	ASTM D2896
Sulphated Ash	1,29	%wt.	DIN 51575

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