

- Certificate / Product Information -

**RAVENOL VDL SAE 5W-40**

Art. 1111132

FULLY SYNTHETIC

DIESEL

CleanSynto®

**Description:**

**RAVENOL VDL SAE 5W-40** is a fully synthetic, low-friction engine oil with CleanSynto® Technology for passenger car diesel engines with or without turbo-charging and direct injection.

**RAVENOL VDL SAE 5W-40** achieves a high viscosity index through its formulation with special base oils. The excellent cold start behaviour provides an optimum lubricating safety during the cold run phase.

Because of a considerable fuel saving **RAVENOL VDL SAE 5W-40** contributes to protect the environment by reducing the emissions.

**RAVENOL VDL SAE 5W-40** minimizes friction, wear and fuel consumption with excellent cold start characteristics.

Suitable for extended oil change intervals where recommended by manufacturer.

**Application Directions:**

**RAVENOL VDL SAE 5W-40** is ideally suited for energy-saving year-round use in passenger car diesel engines with turbocharger and catalytic converter operation.

**RAVENOL VDL SAE 5W-40** guarantees operational safety in all driving conditions, such as extreme stop-and-go traffic as well as high-speed highway driving.

**Quality Classification:**

**RAVENOL VDL SAE 5W-40** is tried and tested for aggregates specifying:

Specification: API CF, ACEA B3/B4

Recommendations: VW 505 00, BMW Longlife-98, MB 229.3, Opel GM-LL-B-025, TOYOTA Common Rail, MITSUBISHI, NISSAN, Fiat 9.55535-M2

**Technical Characteristics:**

**RAVENOL VDL SAE 5W-40** offers:

- High abrasion resistance
- Fuel economy by low friction property
- Excellent detergent and dispersant property
- Prevention of black sludge formation
- Extended endurance because of oxidation stability
- Excellent cold start characteristics
- Excellent viscosity-temperature- characteristics
- Low evaporation tendency
- Suitable for catalysts

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**Technical Values:**

Characteristics	Unit	Data	Test according to
Density at 20°C	kg/m³	849,0	EN ISO 12185
Colour		brown	visual
Viscosity at 100°C	mm²/s	14,4	DIN 51562-1
Viscosity at 40°C	mm²/s	87,7	DIN 51562-1
Viscosity Index VI		170	DIN ISO 2909
HTHS Viscosity at 150°C	mPa*s	4,1	ASTM D5481
CCS Viscosity at -30°C	mPa*s	6110	ASTM D5293
Low Temp. Pumping viscosity (MRV) at -35°C	mPa*s	25.000	ASTM D4684
Pourpoint	°C	-45	DIN ISO 3016
Noack Volatility	% M/M	9,0	ASTM D5800
Flashpoint	°C	240	DIN ISO 2592
TBN	mg KOH/g	9,5	ASTM D2896
Sulphated ash	%wt.	1,3	DIN 51575

All indicated data are approximate values and are subject to the commercial fluctuations.