



## RAVENOL VDL SAE 5W-40



ART.-NR. 1111132

1 L | 1111132-001  
4 L | 1111132-004  
5 L | 1111132-005  
10 L | 1111132-010  
20 L | 1111132-020  
20 L | 1111132-B20  
60 L | 1111132-060  
60 L | 1111132-D60  
208 L | 1111132-208  
208 L | 1111132-D28  
1000 L | 1111132-700

**VISCOSITY** 5W-40

**SPECIFICATIONS** API CF | ACEA B3 | ACEA B4

**FABRICATION** FULLY SYNTHETIC

**RECOMMENDATIONS** VW 505 00 | BMW LONGLIFE-98 | MB 229.3 | OPEL GM-LL-B-025 | TOYOTA COMMON RAIL | MITSUBISHI

**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 Notes

### 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.



## 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

Property	Unit	Data	Audit
Density at 20°C	kg/m <sup>3</sup>	849,0	EN ISO 12185
Colour		braun	visual
Viscosity at 100°C	mm <sup>2</sup> /s	14,4	DIN 51 562
Viscosity at 40°C	mm <sup>2</sup> /s	87,7	DIN 51 562
Viscosity index VI		170	DIN ISO 2909
HTHS at 150°C	mP? <sup>*</sup> 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	ASTM D5800/b
Flash point (COC)	°C	240	DIN ISO 2592
TBN	mg KOH/g	9,5	ASTM D2896
Sulphated ash	%wt.	1,3	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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