



## RAVENOL LLO SAE 10W-40



### ART.-NR. 1112112

1 L	1112112-001
4 L	1112112-004
5 L	1112112-005
10 L	1112112-010
20 L	1112112-020
20 L	1112112-B20
60 L	1112112-060
60 L	1112112-D60
208 L	1112112-208
208 L	1112112-D28
1000 L	1112112-700

**VISCOSITY** 10W-40

**SPECIFICATIONS** API SN | ACEA A3/B4

**FABRICATION** SEMI-SYNTHETIC

**APPROVALS** MB-FREIGABE 229.1 | VW 501 01 | VW 505 00

**RECOMMENDATIONS** VW 500 00/ 505 00 | BMW SPECIAL OIL

**RAVENOL LLO SAE 10W-40** is a semi-synthetic high-performance light-running engine oil with CleanSynto® technology for passenger car carburetor and diesel engines with and without turbocharging and direct injection. Minimizing friction, wear and fuel consumption, excellent cold start characteristics. Extended oil change intervals according to the manufacturer's instructions.

**RAVENOL LLO SAE 10W-40** is produced on the basis of hydro crack oils which correspond to the high tech demands.

## Application Notes

**RAVENOL LLO SAE 10W-40** is suitable for the use of all modern cars with Otto and Diesel engines all the year; no sludge in the motor, excellent results during the test run. A high engine cleanness is guaranteed also in case of turbo charging and a complete catalyst operation as well as multi valves and diesel direct injections.

## Characteristics

**RAVENOL Leichtlauföl LLO 10W-40** offers:

- High abrasion resistance
- Fuel saving because of easy running characteristics
- Excellent detergent and dispersant characteristics
- Prevention of black sludge creation
- Long endurance because of high oxidation stability
- An excellent cold start performance
- A very good viscosity temperature behaviour
- Low evaporation
- Suitable for catalysts



Property	Unit	Data	Audit
Density at 20°C	kg/m <sup>3</sup>	859,0	EN ISO 12185
Colour		gelbbraun	visual
Viscosity at 100°C	mm <sup>2</sup> /s	14,1	DIN 51 562
Viscosity at 40°C	mm <sup>2</sup> /s	95,9	DIN 51 562
Viscosity index VI		150	DIN ISO 2909
HTHS at 150°C	mPa*s	3,96	ASTM D5481
CCS Viscosity at -25°C	mPa*s	6170	ASTM D5293
Low Temp. Pumping viscosity (MRV) at -30°C	mPa*s	48.400	ASTM D4684
Pourpoint	°C	-39	DIN ISO 3016
Noack Volatility	% M/M	7,3	ASTM D5800
Flash point (COC)	°C	226	DIN ISO 2592
TBN	mg KOH/g	8,0	ASTM D2896
Sulphated ash	%wt.	1,0	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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