

## -Certificate / ProductInformation-

### RAVENOL LLO SAE 10W-40

Art. 1112112

SEMI SYNTHETIC

CleanSynto®

#### Description:

**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 Directions:

**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.

#### Quality Classification:

**RAVENOL LLO SAE 10W-40** is approved, tried and tested for aggregates specifying:

Specification: API SN, ACEA A3/B4

Approval: MB-Approval 229.1; VW 501 01 / 505 00

Recommendations: BMW Special Oil; VW 500 00

#### Technical Characteristics:

**RAVENOL LLO SAE 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

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#### Technical Values:

Characteristics	Unit	Data	Test according to
Density at 20 °C	kg/m <sup>3</sup>	859,0	EN ISO 12185
Colour		yellow brown	visual
Viscosity at 100 °C	mm <sup>2</sup> /s	14,1	DIN 51562-1
Viscosity at 40 °C	mm <sup>2</sup> /s	95,9	DIN 51562-1
Viscosity Index VI		150	DIN ISO 2909
HTHS Viscosity 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	%wt.	7,3	ASTM D5800
Flashpoint	°C	226	DIN ISO 2592
TBN	mg KOH/g	8,0	ASTM D2896
Sulphated ash	%wt.	1,0	DIN 51575

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