



# RAVENOL VMO SAE 5W-40



1L | 1111133-001  
4L | 1111133-004  
5L | 1111133-005  
10L | 1111133-010  
20L | 1111133-020  
20L | 1111133-B20  
60L | 1111133-060  
60L | 1111133-D60  
208L | 1111133-208  
208L | 1111133-D28  
1000L | 1111133-700

**Kategorie:** Passenger car motor oil

**Artikelnummer:** 1111133

**Viscosity:** 5W-40

**Specification:** ACEA C3, API CF, API SN

**Oil type:** Synthetic

**Approvals:** API SN, BMW Longlife-04, GM dexos2™ (Lizenz-Nr. D20583HI081), MB-Freigabe 229.31, MB-Freigabe 229.51, VW 505 00, VW 505 01

**Recommendation:** Chrysler MS-11106, Fiat 9.55535-GH2, Fiat 9.55535-S2, Ford WSS-M2C917-A, Porsche A40, VW 502 00

**Application:** Passenger car

**Technology:** Clean Synto®

**RAVENOL VMO SAE 5W-40** is a synthetic Mid SAPS low friction motor oil with CleanSynto® technology for passenger car gasoline and diesel engines with and without turbo-charging and direct injection.

**RAVENOL VMO 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.

**RAVENOL VMO SAE 5W-40** extends long life of DPF and TWC. Developed for fuel economy and energy conserving in EURO VI, EURO V and EURO IV Standard engines with normal and extended oil change intervals (until 50.000 km or 2 years possible).

**RAVENOL VMO SAE 5W-40** minimizes friction, wear and fuel consumption with excellent cold start characteristics. Because of a considerable fuel saving **RAVENOL VMO SAE 5W-40** contributes to protect the environment by reducing the emissions.

Suitable for extended oil change intervals where recommended by manufacturer.

## Application Note

**RAVENOL VMO SAE 5W-40** is an universal, synthetic low friction motor oil especially developed for Pumpe-Düse-diesel engines. Moreover, this lubricant is excellent suitable for gasoline and diesel engines in passenger cars and vans with and without turbo charger. Due to the specific composition is **RAVENOL VMO SAE 5W-40** excellent suitable for use for several OEM requirements.

## Characteristics

- Fuel economy in part and full power operation.
- MID SAPS = reduced Sulphated Ash, Phosphorous and Sulphur.
- Excellent wear protection and high viscosity index also under high-speed driving conditions, the long life of the engine.

- Excellent cold starting characteristics also at low temperatures below - 30°C.
- The function of the hydro tappet is ensure at all temperatures.
- A safe lubricant film at high operating temperatures.
- Low evaporative tendency, so lower oil consumption.
- No deposits in combustion chambers, in the piston ring zone and valves because of oil conditioned.
- Neutrality towards sealing materials.
- Extended oil change intervals to protect natural resources.

## Technical Product Data

PROPERTY	UNIT	DATA	AUDIT
Density at 20 °C	kg/m <sup>3</sup>	848,0	EN ISO 12185
Colour		gelbbraun	VISUELL
Viscosity at 100 °C	mm <sup>2</sup> /s	13,3	DIN 51562-1
Viscosity at 40 °C	mm <sup>2</sup> /s	80,0	DIN 51562-1
Viscosity Index VI		170	DIN ISO 2909
HTHS Viscosity at 150 °C	mPa*s	4,0	ASTM D5481
CCS Viscosity at -30 °C	mPa*s	6375	ASTM D5293
Low Temp. Pumping viscosity (MRV) at -35 °C	mPa*s	27.000	ASTM D4684
Pourpoint	°C	-45	DIN ISO 3016
Noack Volatility	% M/M	8,8	ASTM D5800
Flashpoint	°C	242	DIN EN ISO 2592
tbn	mg KOH/g	8,7	ASTM D2896
Sulphated Ash	%wt.	0,77	DIN 51575

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