



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

RAVENOL VMO SAE 5W-40

Category Passenger car motor oil

Item number 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 / 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-speeddriving 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 valvesbecause of oil conditioned.
- Neutrality towards sealing materials.
- Extended oil change intervals to protect natural resources.

Technical Product Data

Property	Unit	Data	Audit
Colour	gelbbraun		VISUELL
Sulphated Ash	0,77	%wt.	DIN 51575
tbn	7,2	mg KOH/g	ASTM D2896
Viscosity at 100 °C	14,4	mm ² /s	DIN 51562-1
Viscosity at 40 °C	87,5	mm ² /s	DIN 51562-1
Viscosity Index VI	171		DIN ISO 2909
CCS Viscosity at -30 °C	6375	mPa*s	ASTM D5293
Density at 20 °C	848,0	kg/m ³	EN ISO 12185
Flashpoint	242	°C	DIN EN ISO 2592
HTHS Viscosity at 150 °C	3,75	mPa*s	ASTM D5481
Low Temp. Pumping viscosity (MRV) at -35 °C	21.100	mPa*s	ASTM D4684
Noack Volatility	8,8	% M/M	ASTM D5800
Pourpoint	-45	°C	DIN ISO 3016

05.10.2021