



RAVENOL VMO SAE 5W-40

RAVENOL VMO SAE 5W-40 is universal synthetic low friction motor oil based on PAO Poly-alpha-olefins. Special formulation developed for use in passenger car with petrol and diesel engines (also with pump-jet technology Pumpe-Düse-Technik). Energy conserving.

RAVENOL VMO SAE 5W-40 achieves by its formulation with special base oils a high viscosity index. The excellent cold start behaviour ensures an optimal lubrication safety in the cold running phase. Due to a significant fuel economy RAVENOL VMO SAE 5W-40 contributes by reduction of emissions to conservation the environment. Minimal wear extends the lifespan of the engine. Extend oil change intervals according to manufacturer requirements.

RAVENOL VMO SAE 5W-40 extends long life of DPF and TWC. Fulfils EURO IV and EURO V standards for exhaust reducing.

Application Notes

RAVENOL VMO SAE 5W-40 is universal synthetic low friction motor oil especially developed for pump-jet 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 of the latest OEM requirements.

Quality Classifications

Specifications

API SN/CF, ACEA C3, Lizenziert: API SN

Approvals

MB 229.31, VW 502 00 / 505 00 / 505 01, BMW Longlife-04, GM Dexos 2 (Lizenz Nr. D20583HI081)

Practice and tested in aggregates with filling

Porsche A40, Ford WSS-M2C917-A, Fiat 9.55535-S2, Fiat 9.55535-GH2

Characteristic

RAVENOL VMO 5W-40 offers:

- 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

Characteristics	Unit	Data	Audit
Density at 20°C	kg/m ³	848	EN ISO 12185
Colour		yellow brown	visual
Viscosity at 100°C	mm ² /s	14,4	DIN 51 562
Viscosity at 40°C	mm ² /s	87,5	DIN 51 562
Viscosity index VI		171	DIN ISO 2909
HTHS at 150°C	mPa*s	3,75	ASTM D5481
CCS Viscosity at -30°C	mPa*s	6375	ASTM D5293
Low Temp. Pumping viscosity (MRV) at -35°C	mPa*s	21.100	ASTM D4684
Pourpoint	°C	-45	DIN ISO 3016
Noack Volatility	%	8,8	ASTM D5800/b
Flash point (COC)	°C	242	DIN ISO 2592
TBN	mg KOH/g	7,2	ASTM D2896
Sulphated ash	%wt.	0,77	DIN 51 575

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

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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