Ravensberger Schmierstoffvertrieb GmbH
Postfach 1163
33819 Werther
Tel.: 05203/9719-0
Fax.: 05203/9719-40 / 41

-Certificate / ProductInformation -

RAVENOL VMO SAE 5W-40

Art. 1111133

MID SAPS CleanSynto®

Description:

RAVENOL VMO SAE 5W-40 is universal fully 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 TCW. Fulfils EURO IV and EURO V standards for exhaust reducing.

Application Directions:

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 Classification:

RAVENOL VMO SAE 5W-40 is approved, tried and tested for aggregates specifying:
Specifications: API SN/SM/CF, ACEA A3/B4, C3
License: API SN
Approvals: MB-Approval 229.31, VW 502 00 / 505 00 / 505 01
Recommendations: BMW Longlife-04, Porsche A40, Ford WSS-M2C917-A, Fiat 9.55535-S2
Audi/Volkswagen G 052 167 M2, G 052 167 M4 (MX), G 052 167 M6 (MX), BMW 81 22 9 407 002, BMW 81 22 9 407 029, BMW 81 22 9 407 547, Mercedes Benz 000 989 82 01

Technical Characteristics:

RAVENOL VMO 5W-40 offers:

- Fuel economy in part and full power operation
- 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 Values:

Characteristics		unit	data	test according to
Colour			yellow brown	visual
Density	at 20°C	kg/m³	859	EN ISO 12185
Viscosity	at 40°C	mm²/s	83	DIN 51 562
	at 100°C	mm^2/s	13,8	DIN 51 562
Viscosity index VI			182	DIN ISO 2909
Flash point (COC)		°C	225	DIN ISO 2592
Pour point		°C	-39	DIN ISO 3016
TBN		mg KOH/g	7,7	DIN ISO 3771
Sulphated ash		% wt.	0,77	DIN 51 575

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

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