

- Certificate / ProductInformation -

RAVENOL SMO SAE 5W-30

Art. 1111151

SYNTHETIC

CleanSynto®

Description:

RAVENOL SMO SAE 5W-30 Synthetic Multi Oil is synthetic low friction motor oil with CleanSynto® technology for passenger car gasoline engines with and without turbo-charging and direct injection.

RAVENOL SMO SAE 5W-30 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.

Because of a considerable fuel saving **RAVENOL SMO SAE 5W-30** contributes to protect the environment by reducing the emissions.

RAVENOL SMO SAE 5W-30 minimizes friction, wear and fuel consumption with excellent cold start characteristics.

Suitable for extended oil change intervals where recommended by manufacturer.

Application Directions:

RAVENOL SMO SAE 5W-30 is suitable for demanding engines as high performance low friction engine oil. The specifications API SN Resource Conserving (RC) and ILSAC GF-5 are backward compatible with the respective previous specifications.

Quality Classification:

RAVENOL SMO SAE 5W-30 is tried and tested for aggregates specifying:

Specifications: API SN (RC); ILSAC GF-5

License: API SN Resource Conserving

Recommendations: Chrysler MS-6395; Ford WSS-M2C929-A, Ford WSS-M2C946-A; Fiat 9.55535-CR1; GM 6094M; Lexus; Mazda; Nissan; Subaru; Toyota

Technical Characteristics:

RAVENOL SMO SAE 5W-30 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
- 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
- Neutrality towards sealing materials
- Extended oil change intervals to protect natural resources

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Technical Values:

Characteristics	Unit	Data	Test according to
Density at 20 °C	kg/m³	849,0	EN ISO 12185
Colour		yellow brown	visual
Viscosity at 100 °C	mm²/s	9,8	DIN 51562-1
Viscosity at 40 °C	mm²/s	56,6	DIN 51562-1
Viscosity Index VI		159	DIN ISO 2909
HTHS Viscosity at 150 °C	mPa*s	3,07	ASTM D5481
CCS Viscosity at -30 °C	mPa*s	5700	ASTM D5293
Low Temp. Pumping viscosity (MRV) at -35 °C	mPa*s	27.550	ASTM D4684
Pourpoint	°C	-39	DIN ISO 3016
Noack Volatility	% M/M	9,6	ASTM D5800/b
Flashpoint	°C	236	DIN ISO 2592
TBN	mg KOH/g	7,4	ASTM D2896
Sulphated ash	%wt.	0,8	DIN 51575

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