

-Certificate / ProductInformation-

RAVENOL HPS SAE 5W-30

Art. 1111117

SEMI SYNTHETIC

CleanSynto®

Description:

RAVENOL HPS SAE 5W-30 is modern high performance low friction semi synthetic hydrocrack hypersynth multigrade motor oil with CleanSynto® technology, formulated with PAO (Polyalphaolefines), for passenger car gasoline and diesel engines, with and without turbocharging and direct injection.

RAVENOL HPS 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 HPS SAE 5W-30** contributes to protect the environment by reducing the emissions.

RAVENOL HPS 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 HPS SAE 5W-30 is low friction motor oil, which is suitable for performance motors. It is recommended for all modern passenger car gasoline and diesel engines, including turbo versions and for direct injection motors and also recommended for all operation conditions.

Quality Classification:

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

Specifications: API SL/CF, ACEA A3/B4

Recommendations: MB 229.3, BMW Longlife-98, VW 502 00 / 505 00

Technical Characteristics:

RAVENOL HPS SAE 5W-30 offers:

- Fuel economy in part and full power operation
- Very stable and excellent viscosity behaviour
- Excellent shear stability
- Excellent cold starting characteristics
- A safe lubricant film at high operating temperatures
- Excellent detergent- and dispersant characteristics
- High wear and corrosion protection, high oxidation stability
- Prevention of sludge formation
- Extended lifetime because of oxidation stability
- Suitable for catalysts

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Technical Values:

Characteristics	Unit	Data	Test according to
Density at 20°C	kg/m³	850,0	EN ISO 12185
Colour		yellow brown	visual
Viscosity at 100°C	mm²/s	12,15	DIN 51562-1
Viscosity at 40°C	mm²/s	70,9	DIN 51562-1
Viscosity Index VI		170	DIN ISO 2909
HTHS Viscosity at 150°C	mPa*s	3,54	ASTM D5481
CCS Viscosity at -30°C	mPa*s	6140	ASTM D5293
Low Temp. Pumping viscosity (MRV) at -35°C	mPa*s	16.200	ASTM D4684
Pourpoint	°C	-39	DIN ISO 3016
Noack Volatility	% M/M	8,9	ASTM D5800
Flashpoint	°C	242	DIN ISO 2592
TBN	mg KOH/g	11,0	ASTM D2896
Sulphated ash	%wt.	1,18	DIN 51575

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