

RAVENOL HDX SAE 5W-30

Art. 1111125

SYNTHETIC

CleanSynto®

Description:

RAVENOL HDX SAE 5W-30 is a synthetic, low-friction engine oil with CleanSynto® technology for car gasoline engines, with and without turbocharging and direct injection, such as Turbo-GDI and direct injection. With its new formulation, **RAVENOL HDX SAE 5W-30** provides a safe layer of lubrication even at very high operating temperatures and protects from corrosion and loss of oil through oxidation or coking.

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

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

RAVENOL HDX SAE 5W-30 helps to avoid low speed pre-ignition LSPI (Low Speed Pre-ignition). This can help avoid engine damage.

Suitable for extended oil change intervals where recommended by manufacturer.

Application Directions:

RAVENOL HDX SAE 5W-30 is a high-performance low-friction engine oil for modern engines. It is recommended by OPEL/GENERAL MOTORS corresponding to dexos1 specification for modern car engines under all operating conditions.

RAVENOL HDX SAE 5W-30 is also suitable for the shown specifications of Ford, Chrysler and Fiat.

Quality Classification:

RAVENOL HDX SAE 5W-30 is approved, tried and tested for aggregates specifying:

Specifications: API SP (RC), API SN Plus; ILSAC GF-6A

License: API SP Resource Conserving, API SN Plus; ILSAC GF-6A

Approval: GM dexos1™ Gen 2, (License-No. D10709HK081)

Recommendations: Chrysler MS-6395, MS-13340; Fiat 9.55535-CR1;

Ford WSS-M2C946-A/-B1, WSS-M2C929-A; Honda/Acura HTO-06

Technical Characteristics:

RAVENOL HDX SAE 5W-30 offers:

- Fuel savings in partial and full load operation
- Outstanding wear protection and high viscosity index ensure engine longevity, even under high-speed driving conditions
- Excellent cold-start properties even at low temperatures below -25°C
- A safe lubricating film at high operating temperatures
- Low evaporation tendency, thus low oil consumption
- No oil-based deposits in combustion chambers, in the piston ring zone and on valves
- Neutrality towards sealing materials
- Extended oil change intervals protect natural resources

- Certificate / ProductInformation -

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Technical Values:

Characteristics	Unit	Data	Test according to
Density at 20°C	kg/m³	844,0	EN ISO 12185
Colour		yellow brown	visual
Viscosity at 100°C	mm²/s	10,8	DIN 51562-1
Viscosity at 40°C	mm²/s	59,8	DIN 51562-1
Viscosity Index VI		173	DIN ISO 2909
HTHS Viscosity at 150°C	mPa*s	3,4	ASTM D5481
CCS Viscosity at -30°C	mPa*s	3630	ASTM D 5293
Low Temp. Pumping viscosity (MRV) at -35°C	mPa*s	18.500	ASTM D4684
Pourpoint	°C	-45	DIN ISO 3016
Noack Volatility	% M/M	10,9	ASTM D5800
Flashpoint	°C	228	DIN ISO 2592
TBN	mg KOH/g	8,7	ASTM D2896
Sulphated ash	%wt.	0,86	DIN 51575

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