



## RAVENOL HLS SAE 5W-30

### Mid SAPS

RAVENOL HLS SAE 5W-30 is fully synthetic Mid SAPS low friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection. Minimisation of friction, abrasion and fuel consumption, excellent cold start characteristics. Extended oil change intervals according to manufacturer's recommendations.

The excellent cold start characteristics provide optimal lubricant safety in the cold-running phase. Because of the noticeable fuel economy RAVENOL HLS SAE 5W-30 contributes the reduction of pollutant emissions and protecting the environment. RAVENOL HLS SAE 5W-30 is Mid SAPS Oils which prevents effectively the reset of the diesel soot particulate filter.

### Application Notes

RAVENOL HLS SAE 5W-30 is suitable for demanding motors as a high performance low friction multi-grade gear oil. It is recommended for all modern passenger car gasoline and diesel engines, including turbo versions, for direct injection motors and it is also recommended for all operation conditions. Especially formulated according to the OPEL specification with DEXOS2 specification. RAVENOL HLS SAE 5W-30 is recommended for use in vehicles with diesel particulate filters.

### Quality Classifications

#### Specifications

API SN/SM(EC)/SL/CF, ACEA C3

#### Approvals

MB-Approval 229.51, BMW Longlife-04, GM dexos2 (License No. GB2C0711081), GMW 16177, License: API SM Energy Conserving, API SL

#### Practice and tested in aggregates with filling

MB 229.31, VW 502 00 / 505 00 / 505 01, Fiat 9.55535-S3, Chrysler MS-11116

### Characteristic

RAVENOL HLS SAE 5W-30 offers:

- Noticeable Fuel-Economy (FE)
- Low evaporation loss
- Excellent detergent and dispersant property
- Prevention of black sludge formation
- Improved cleaner engine
- Extended endurance because of oxidation stability
- Excellent cold start characteristics
- Excellent viscosity-temperature- characteristics
- Low evaporation tendency
- Suitable for catalysts
- Prevents effectively the reset of the diesel soot particulate filter

Characteristics	Unit	Data	Audit
Colour		brown	visual
Density at 20°C	kg/m³	852	EN ISO 12185
Viscosity at 40°C	mm²/s	67,0	DIN 51 562
Viscosity at 100°C	mm²/s	11,7	DIN 51 562
Viscosity index VI		171	DIN ISO 2909
Flash point (COC)	°C	210	DIN ISO 2592
Pourpoint	°C	-36	DIN ISO 3016
TBN	mg KOH/g	7,2	DIN ISO 3771

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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