



## RAVENOL HLS SAE 5W-30



**VISCOSITY** 5W-30

**SPECIFICATIONS** API SN | API CF | ACEA C3

**FABRICATION** SYNTHETIC

**APPROVALS** MB-FREIGABE 229.51 | MB-FREIGABE 229.52 | BMW  
LONGLIFE-04 | GM DEXOS2™ | LICENSE: API SN

**RECOMMENDATIONS** MB 229.31 | VW 502 00 | VW 505 00 | VW 505 01 |  
FIAT 9.55535-S3 | CHRYSLER MS-11106

### ART.-NR. 1111119

1 L | 1111119-001  
4 L | 1111119-004  
5 L | 1111119-005  
10 L | 1111119-010  
20 L | 1111119-020  
20 L | 1111119-B20  
60 L | 1111119-060  
60 L | 1111119-D60  
208 L | 1111119-208  
208 L | 1111119-D28  
1000 L | 1111119-700

### Mid SAPS

**RAVENOL HLS SAE 5W-30** is synthetic 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.

## Characteristics

**RAVENOL HLS 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

Property	Unit	Data	Audit
Density at 20°C	kg/m <sup>3</sup>	847,0	EN ISO 12185
Colour		braun	visual
Viscosity at 100°C	mm <sup>2</sup> /s	12,2	DIN 51 562
Viscosity at 40°C	mm <sup>2</sup> /s	72,7	DIN 51 562
Viscosity index VI		166	DIN ISO 2909
HTHS at 150°C	mP? <sup>*</sup> s	3,51	ASTM D5481
CCS Viscosity at -30°C	mPa*s	5216	ASTM D5293
Low Temp. Pumping viscosity (MRV) at -35°C	mPa*s	20.300	ASTM D4684
Pourpoint	°C	-39	DIN ISO 3016
Noack Volatility	% M/M	8,5	ASTM D5800/b
Flash point	°C	234	DIN ISO 2592
TBN	mg KOH/g	7,8	ASTM D2896
Sulphated ash	%wt.	0,8	DIN 51 575

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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