



## RAVENOL VMS SAE 5W-30



**VISCOSITY** 5W-30

**SPECIFICATIONS** API SN | ACEA C3

**FABRICATION** SYNTHETIC

**APPROVALS** MB-APPROVAL 229.31 | MB-APPROVAL 229.51 | MB-APPROVAL 229.52

**RECOMMENDATIONS** CHRYSLER MS-11106

### ART.-NR. 1111144

1 L	1111144-001
4 L	1111144-004
5 L	1111144-005
10 L	1111144-010
20 L	1111144-020
20 L	1111144-B20
60 L	1111144-060
60 L	1111144-D60
208 L	1111144-208
208 L	1111144-D28
1000 L	1111144-700

**RAVENOL VMS SAE 5W-30** is synthetic low friction motor oil with CleanSynto® technology for Daimler 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 VMS SAE 5W-30** contributes the reduction of pollutant emissions and protecting the environment. **RAVENOL VMS SAE 5W-30** is Oil which prevents effectively the clogging of the diesel soot particulate filter.

## Application Notes

**RAVENOL VMS SAE 5W-30** is suitable for demanding motors as 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. **RAVENOL VMS SAE 5W-30** is recommended for use in vehicles with diesel particulate filters. It is especially formulated according to the Daimler Low SPash multigrade service engine oil specification MB 229.52 and suitable for BlueTEC OM642.

## Characteristics

**RAVENOL VMS SAE 5W-30** offers:

- Fuel savings in partial and full load
- Excellent wear protection and high viscosity index secure even under high speed driving conditions engine longevity
- Excellent cold starting properties even at low temperatures below -30°C
- A safe lubrication film at high operating temperatures.
- Low volatilization tendency, thereby lower oil consumption
- No oil-related deposits in combustion chambers in the piston ring zone and on valves
- Neutrality towards sealing materials



- Extended oil change intervals protect natural resources

Property	Unit	Data	Audit
Density at 20°C	kg/m <sup>3</sup>	847,0	EN ISO 12185
Colour		brown	visual
Viscosity at 100°C	mm <sup>2</sup> /s	12,2	DIN 51 562
Viscosity at 40°C	mm <sup>2</sup> /s	72,8	DIN 51 562
Viscosity index VI		165	DIN ISO 2909
HTHS at 150°C	mP? <sup>*</sup> s	3,51	ASTM D5481
CCS Viscosity at -30°C	mPa*s	5258	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	8,6	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.

Release: : 15. October 2019