



# RAVENOL VSW SAE 0W-30



- 1L | 1111106-001
- 4L | 1111106-004
- 5L | 1111106-005
- 10L | 1111106-010
- 20L | 1111106-020
- 20L | 1111106-B20
- 60L | 1111106-060
- 208L | 1111106-208

**Kategorie:** Passenger car motor oil

**Artikelnummer:** 1111106

**Viscosity:** 0W-30

**Specifications:** ACEA C3, API SN

**Oil type:** Full synthetic

**Approvals:** BMW Longlife-04, MB -Freigabe 229.31, MB -Freigabe 229.51, MB -Freigabe 229.52

**Recommendations:** Chrysler MS-11106, Porsche C30, VW 504 00, VW 507 00

**Application:** Passenger car

**Technology:** CleanSynto, USVO

**RAVENOL VSW SAE 0W-30** is a PAO (Polyalphaolefin) based, full synthetic low friction motor oil with especially USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection.

Due to the USVO® technology we achieve an extremely high viscosity stability. We avoid the disadvantages of polymeric viscosity improvers while taking advantage of them. This improves engine protection, performance, engine cleanliness and oil drain intervals. The USVO® technology makes it possible that the product has no shear losses during the entire change interval and is extremely stable to oxidation. This unique technology helps oil lubricate faster, thereby minimizing friction while keeping the engine clean and efficient.

**RAVENOL VSW SAE 0W-30** lengthens the service life of the diesel particulate filter by reducing the concentration of ash-forming particles in the exhaust gas. It reduces the emissions of gases which are harmful to the environment. It delivers a higher degree of security by providing lasting

protection for engines.

With its new formulation, **RAVENOL VSW SAE 0W-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. The excellent cold start behavior ensures optimum lubrication safety during the cold running phase.

By significantly reducing fuel consumption, **RAVENOL VSW SAE 0W-30** helps to protect the environment by reducing emissions.

**RAVENOL VSW SAE 0W-30** minimizes friction, wear and fuel consumption with excellent cold start characteristics.

**RAVENOL VSW SAE 0W-30** guarantees operational safety in all driving conditions, such as extreme stop-and-go traffic as well as high-speed highway driving.

Extended oil change intervals according to the manufacturer's instructions.

## Application instructions

**RAVENOL VSW SAE 0W-30** can be used in all vehicles with or without LongLife Service and is therefore suitable for extended oil change intervals and vehicles with and without DPF filters. The operating instructions of the vehicle and engine manufacturers must be observed.

## Characteristics

- Particularly low-friction characteristics and an outstanding range of benefits thanks to special additives.
- Outstanding engine protection even after a cold start and in tougher conditions.
- Guarantees rapid engine lubrication even at low temperatures of under -30°C and a sufficiently thick film of lubrication even at oil temperatures of >150°C during high-speed journeys.
- Guarantees the best possible protection against wear and tear and the highest level of engine cleanliness while also consuming less fuel (fuel economy characteristic).
- The hydraulic tappets are guaranteed to function at all temperatures due to adequate oil pressure.
- Does not have an impact on sealants.
- Safeguards the engine against sludge formation, coking, lacquering and corrosion even in unfavourable operating conditions.

## Technical Product Data

CHARACTERISTICS	PROPERTY	DATA	AUDIT
Colour		braun	VISUELL
Sulphated Ash	%wt.	0,63	DIN 51575
tbn	mg KOH/g	7,6	ASTM D2896
Viscosity at 100 °C	mm <sup>2</sup> /s	12,0	DIN 51659-2
Viscosity at 40 °C	mm <sup>2</sup> /s	60,8	DIN 51659-2
Viscosity Index VI		197	DIN ISO 2909
CCS Viscosity at -35 °C	mPa*s	5565	ASTM D5293
Density at 20 °C	kg/m <sup>3</sup>	846,0	EN ISO 12185
Flashpoint	°C	234	DIN EN ISO 2592
HTHS Viscosity at 150 °C	mPa*s	3,6	ASTM D5481
Low Temp. Pumping viscosity (MRV) at -40 °C	mPa*s	14.800	ASTM D4684
Noack Volatility	% M/M	9,0	ASTM D5800
Pourpoint	°C	-60	DIN ISO 3016