



1 L | 1111110-001  
4 L | 1111110-004  
5 L | 1111110-005  
10 L | 1111110-010  
20 L | 1111110-020  
20 L | 1111110-B20  
60 L | 1111110-060  
60 L | 1111110-D60  
208 L | 1111110-208  
208 L | 1111110-D28  
1000 L | 1111110-700

## RAVENOL SUPER FUEL ECONOMY SFE SAE 5W-20

**Category** Passenger car motor oil

**Item number** 1111110

**Viscosity** 5W-20

**Specification** ACEA A5/B5, API SN Plus, API SP (RC), ILSAC GF-6A,

**Oil type** Vollsynthetisch

**Approvals** API SN Plus, API SP Resource Conserving, ILSAC GF-6A, Jaguar Land Rover STJLR.03.5004,

**Recommendation** Chrysler MS-6395, Fiat 9.55535-CR1, Ford WSS-M2C925-A, Ford WSS-M2C925-B, Ford WSS-M2C930-A, Ford WSS-M2C930-B, Ford WSS-M2C948-B, Honda/Acura HTO-06, Mazda, Nissan, Suzuki, Toyota,

**Application** Passenger car

**Technology** Clean Synto®, USVO®

**RAVENOL Super Fuel Economy SFE SAE 5W-20** is a PAO (Polyalphaolefin) based, fully 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 to be lubricated faster, thereby minimizing friction while keeping the engine clean and efficient.

**RAVENOL Super Fuel Economy SFE SAE 5W-20** utilizes the positive properties of tungsten to smooth the surface structure of the motor, reducing friction and wear, and significantly improving mechanical efficiency.

**RAVENOL Super Fuel Economy SFE SAE 5W-20** has a high viscosity index because of its formulation with special base oils. The formulation avoids premature fuel ignition LSPI (Low Speed Prevention), thereby avoiding engine damage. Recommended for turbo gasoline engines with direct injection (Turbo-GDI).

Because of a considerable fuel saving **RAVENOL Super Fuel Economy SFE SAE 5W-20** contributes

to protect the environment by reducing the emissions.

**RAVENOL Super Fuel Economy SFE SAE 5W-20** minimizes friction, wear and fuel consumption with excellent cold start characteristics.

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

## Application Note

**RAVENOL Super Fuel Economy SFE SAE 5W-20** is an universal fuel-efficient engine oil, a top-quality product for modern passenger cars with gasoline and diesel engines of the latest generation.

## Characteristics

- Guaranteed fastest possible lubrication of the engine.
- High fuel economy (FE) effect due to the base oils and additives used. Low volatilization tendency, thereby lower oil consumption.
- Provides protection against sludging, coking, varnish and corrosion even under unfavorable operating conditions.
- No oil-related deposits in combustion chambers in the piston ring zone and on valves.
- Ensures the function of the hydraulic tappets at all temperatures.
- Stable engine oil, no NOx oxidation.
- Good aging behavior, confirmed by the Hot Tube Test.
- Good soot absorption and dispersion.
- Neutral towards sealing materials.
- Protects turbocharger, EPS and engines running with ethanol-containing fuels up to E85.
- Compatibility with exhaust gas after treatment systems.

## Technical Product Data

Property	Unit	Data	Audit
Colour	gelbbraun		VISUELL
Sulphated Ash	0,8	%m	DIN 51575
tbn	8,0	mg KOH/g	ASTM D2896
Viscosity at 100 °C	8,5	mm <sup>2</sup> /s	DIN 51562-1
Viscosity at 40 °C	47,2	mm <sup>2</sup> /s	DIN 51562-1
Viscosity Index VI	160		DIN ISO 2909
CCS Viscosity at -30 °C	3640	mPa*s	ASTM D5293
Density at 20 °C	842,0	kg/m <sup>3</sup>	EN ISO 12185

Property	Unit	Data	Audit
Flashpoint	°C	238	DIN EN ISO 2592
CCS Viscosity at -30 °C	mPa*s	3640	ASTM D5293
Low Temp. Pumping viscosity (MRV) at -35 °C	mPa*s	9.700	ASTM D4684
Noack Volatility	% M/M	8,3	ASTM D5800
Pourpoint	°C	-63	DIN ISO 3016
Colour	gelbbraun		VISUELL
Sulphated Ash	%m	0,8	DIN 51575
tbn	mg KOH/g	8,0	ASTM D2896
Viscosity at 100 °C	mm²/s	8,5	DIN 51562-1
Viscosity at 40 °C	mm²/s	47,2	DIN 51562-1
Viscosity Index VI		160	DIN ISO 2909
CCS Viscosity at -30 °C	mPa*s	3640	ASTM D5293
Density at 20 °C	kg/m³	842,0	EN ISO 12185
Flashpoint	°C	238	DIN EN ISO 2592
HTHS Viscosity at 150 °C	mPa*s	2,9	ASTM D5481
Low Temp. Pumping viscosity (MRV) at -35 °C	mPa*s	9.700	ASTM D4684
Noack Volatility	% M/M	8,3	ASTM D5800
Pourpoint	°C	-63	DIN ISO 3016
Colour	yellow brown		VISUAL
Sulphated Ash	%m	0,8	DIN 51575
tbn	mg KOH/g	8,0	ASTM D2896
Viscosity at 100 °C	mm²/s	8,5	DIN 51562-1
Viscosity at 40 °C	mm²/s	47,2	DIN 51562-1
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