



## RAVENOL HFE SAE 5W-16



### ART.-NR. 1111104

1 L | 1111104-001  
4 L | 1111104-004  
10 L | 1111104-010  
20 L | 1111104-020

**SPECIFICATIONS** API SN

**FABRICATION** FULLY SYNTHETIC

**RECOMMENDATIONS** HONDA 08215-99974 | HONDA 08216-99974 | HONDA 08232-P99S1LHE | HONDA ULTRA NEXT | HONDA ULTRA GREEN | HONDA HYBRID ENGINE | NISSAN KLANM-01A04 EXTRA SAVE X ECO | MITSUBISHI MZ102661 | MITSUBISHI MZ102662 | MITSUBISHI DIAQUEEN ECO PLUS | TOYOTA 0880-11005

**RAVENOL High Fuel Economy HFE SAE 5W-16** is a PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with especially USVO® and proven CleanSynto® technology for passenger car petrol engines with and without turbo-charging and direct injection.

**RAVENOL High Fuel Economy HFE SAE 5W-16** was formulated with tri-nuclear molybdenum and OFM (Organic Friction Modifiers), in order to achieve minimal friction, wear and fuel consumption with excellent cold start characteristics.

With its new formulation, **RAVENOL High Fuel Economy HFE SAE 5W-16** 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 High Fuel Economy HFE SAE 5W-16** helps to protect the environment by reducing emissions.

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

## Application Notes

**RAVENOL High Fuel Economy HFE SAE 5W-16** is suitable as a high performance, smooth-running engine oil for sophisticated engines. It is recommended for modern passenger car petrol engines, if the engine manufacturer recommends using a low viscosity oil with the viscosity category 5W-16.

## Characteristics

**RAVENOL High Fuel Economy HFE SAE 5W-16** offers:

- Fuel saving in partial and full load operation
- Excellent wear protection and a high viscosity index ensure the long service life of the engine even under high speed driving conditions.
- Excellent cold start properties even at low temperatures of below -30°C.
- A reliable lubrication film even at high operating temperatures.



- Low volatility, resulting in low oil consumption.
- No oil-related deposits in combustion chambers, in the piston ring zone and on valves.
- Compatible with sealing materials.
- Extended oil change intervals protect natural resources.



Property	Unit	Data	Audit
Density at 20°C	kg/m <sup>3</sup>	848	EN ISO 12185
Colour		gelb-braun	visual
Viscosity at 100°C	mm <sup>2</sup> /s	7,5	DIN 51 562
Viscosity at 40°C	mm <sup>2</sup> /s	41,61	DIN 51 562
Viscosity index VI		148	DIN ISO 2909
HTHS at 150°C	mPa*s	2,5	ASTM D5481
CCS Viscosity at -30°C	mPa*s	4461	ASTM D5293
Low Temp. Pumping viscosity (MRV) at -35°C	mPa*s	11.040	ASTM D 4684
Pourpoint	°C	-50	DIN ISO 3016
Noack Volatility	% M/M	7,2	ASTM D5800/b
TBN	mg KOH/g	8,2	ASTM D2896

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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