



RAVENOL FDS SAE 5W-30



ART.-NR. 1111139

1 L	1111139-001
4 L	1111139-004
5 L	1111139-005
10 L	1111139-010
20 L	1111139-020
20 L	1111139-B20
60 L	1111139-060
60 L	1111139-D60
208 L	1111139-208
208 L	1111139-D28
1000 L	1111139-700

VISCOSITY 5W-30

SPECIFICATIONS API CF | API SL | ACEA A1/B1 | ACEA A5/B5

FABRICATION FULLY SYNTHETIC

APPROVALS MB-FREIGABE 229.6 | RENAULT RN0700 | FORD WSS-M2C913-D | JAGUAR LAND ROVER STJLR.03.5003 | LICENSE: API SL

RECOMMENDATIONS FORD WSS-M2C913-C | FIAT 9.55535-G1

RAVENOL FDS SAE 5W-30 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 turbocharging 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 FDS SAE 5W-30 utilizes the positive properties of tungsten to smooth the surface structure of the motor, reducing friction and wear, and significantly improving mechanical efficiency.

With its new formulation, **RAVENOL FDS SAE 5W-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 FDS SAE 5W-30** helps to protect the environment by reducing emissions.

RAVENOL FDS SAE 5W-30 minimizes friction, wear and fuel consumption with excellent cold start characteristics.

RAVENOL FDS SAE 5W-30 ensures operational safety in all driving conditions such as in extreme stop-and-go traffic and high-speed motorway driving.

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



Application Notes

RAVENOL FDS SAE 5W-30 is suitable as motor oil for fuel-efficient year-round use in modern petrol and diesel engines in passenger cars, station wagon's, vans and similar vehicles from FORD and RENAULT, Toyota, Hyundai, Kia, Mazda, Honda, Nissan, Mitsubishi when the given specifications ACEA A5/B5 are required.

Characteristics

RAVENOL FDS SAE 5W-30 offers:

- Excellent cold starting properties even at low temperatures of below -30 ° C
- A very stable and excellent viscosity characteristics, shear stability
- Fuel efficiency under all operating conditions
- Excellent detergency and dispersing properties
- neutrality towards sealing materials
- Low evaporation loss, thereby lower oil consumption
- An extensive protection against wear, corrosion and foaming
- Catalyst suitability
- Extended oil change intervals to protect natural resources

Property	Unit	Data	Audit
Density at 20°C	kg/m ³	843	EN ISO 12185
Colour		braun	visual
Viscosity at 100°C	mm ² /s	10,2	DIN 51 562
Viscosity at 40°C	mm ² /s	58,35	DIN 51 562
Viscosity index VI		163	DIN ISO 2909
HTHS at 150°C	mP?*s	3,0	ASTM D5481
CCS Viscosity at -30°C	mPa*s	3880	ASTM D5293
Low Temp. Pumping viscosity (MRV) at -35°C	mPa*s	14.800	ASTM D 4684
Pourpoint	°C	-51	DIN ISO 3016
Noack Volatility	% M/M	8,9	ASTM D5800/b
Flash point	°C	228	DIN ISO 2592
TBN	mg KOH/g	10,1	ASTM D2896
Sulphated ash	%wt.	1,2	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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