

## -Certificate / ProductInformation-

### RAVENOL HDS Hydrocrack Diesel Specific 5W-30

Art. 1111121

SYNTHETIC DIESEL

Low SAPS

CleanSynto®

#### Description:

**RAVENOL HDS Hydrocrack Diesel Specific 5W-30** is a synthetic, Low SAPS low-friction engine oil with CleanSynto® technology for passenger car diesel engines, with and without turbocharging and direct injection.

**RAVENOL HDS Hydrocrack Diesel Specific 5W-30** is based on additives with reduced ash content for use in modern passenger car with diesel engines with excellent cold start characteristics, low oil consumption and reduced pollutant emissions. This oil will increase the DPF and TWC life. HTHS- Viscosity >3.5 mPa\*s (cP). Developed for fuel economy and energy conserving in EURO VI, EURO V and EURO IV Standard engines with normal and extended oil change intervals (until 50.000 km or 2 years possible).

**RAVENOL HDS Hydrocrack Diesel Specific 5W-30** achieves a high viscosity index through its formulation with special base oils. The excellent cold start behaviour provides an optimum lubricating safety during the cold run phase.

Because of a considerable fuel saving **RAVENOL HDS Hydrocrack Diesel Specific 5W-30** contributes to protect the environment by reducing the emissions.

**RAVENOL HDS Hydrocrack Diesel Specific 5W-30** minimizes friction, wear and fuel consumption with excellent cold start characteristics.

Suitable for extended oil change intervals where recommended by manufacturer.

#### Application Directions:

**RAVENOL HDS Hydrocrack Diesel Specific 5W-30** is an universal fuel economy engine oil for modern diesel engines with and without turbo charger in passenger cars and vans with extended oil change intervals. Extend the lifespan of the particle filter. Due to the specific composition is **RAVENOL HDS Hydrocrack Diesel Specific 5W-30** excellent suitable for use for several of the latest OEM requirements.

#### Quality Classification:

**RAVENOL HDS Hydrocrack Diesel Specific 5W-30** is approved, tried and tested for aggregates specifying:

Specification: ACEA C4

Approval: MB-Approval 226.51; RENAULT RN 0720,

#### Technical Characteristics:

**RAVENOL HDS Hydrocrack Diesel Specific 5W-30** offers:

- Fuel economy in part and full power operation
- Excellent wear protection and high viscosity index also under high-speed driving conditions, the long life of the engine
- Excellent cold starting characteristics also at low temperatures below -30°C
- A safe lubricant film at high operating temperatures
- Low evaporative tendency, so lower oil consumption
- No deposits in combustion chambers, in the piston ring zone and valves because of oil conditioned
- Neutrality towards sealing materials
- Extended oil change intervals to protect natural resources

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#### Technical Values:

Characteristics	Unit	Data	Test according to
Density at 20°C	kg/m³	843,0	EN ISO 12185
Colour		brown	visual
Viscosity at 100°C	mm²/s	12,1	DIN 51562-1
Viscosity at 40°C	mm²/s	72,0	DIN 51562-1
Viscosity Index VI		166	DIN ISO 2909
HTHS Viscosity at 150°C	mPa*s	3,6	ASTM D5481
CCS Viscosity at -30°C	mPa*s	5.500	ASTM D5293
Low Temp. Pumping viscosity (MRV) at -35°C	mPa*s	19.100	ASTM D4684
Pourpoint	°C	-39	DIN ISO 3016
Noack Volatility	% M/M	7,6	ASTM D5800
Flashpoint	°C	236	DIN ISO 2592
TBN	mg KOH/g	7,9	ASTM D2896
Sulphated ash	%wt.	0,49	DIN 51575

All indicated data are approximate values and are subject to the commercial fluctuations.