Ravensberger Schmierstoffvertrieb GmbH Postfach 1163 33819 Werther

Tel.: 05203/9719-0 Fax.: 05203/9719-40 / 41

# - Certificate / ProductInformation -

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

Art. 1111121

Diesel-Fullsynth CleanSynto®

Low SAPS

#### **Description:**

RAVENOL HDS Hydrocrack Diesel Specific 5W-30 is fully synthetic, fuel economy low friction motor oil with a special formulation with Low SAPS (EURO 4) for the latest passenger car diesel engines with DPF (Diesel particle filter, Diesel soot particle filter or NOx- store catalysts). Excellent cold start characteristics, low oil consumption and reduced pollutant emissions.

RAVENOL HDS Hydrocrack Diesel Specific 5W-30 contributes by reduction of emissions to conservation the environment. Minimal wear extends the lifespan of the engine. HTHS- Viscosity >3.5 mPa\*s (cP). Extended oil change intervals according to manufacturer requirements in EURO IV and EURO V engines (up to 50.000 km or 2 years possible). RAVENOL HDS Hydrocrack Diesel Specific 5W-30 achieved by its formulation with special base oils a high viscosity index. The excellent cold start behaviour ensures an optimal lubrication safety in the cold running phase.

#### **Application Directions:**

**RAVENOL HDS Hydrocrack Diesel Specific 5W-30** is a fuel economy engine oil for modern diesel engines with turbo charger and exhaust gas after treatment with DPF (Diesel particle filter, Diesel soot particle filter or NOx- store catalysts) or TCW (Three Way Catalyst).

## **Quality Classification:**

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

Specification: ACEA C4

License: API SM Energy Conserving

Approval: RENAULT RN 0720, MB-Approval 226.51

## **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

#### **Technical Values:**

Technical Va	ilucs.			
Characteristics		unit	data	test according to
Colour			mid brown	visual
Density	at 20°C	kg/m³	843	EN ISO 12185
Viscosity	at 40°C	mm²/s	72,03	DIN 51 562
	at 100°C	mm²/s	12,12	DIN 51 562
Viscosity index VI			166	DIN ISO 2909
Flash point (COC)		°C	236	DIN ISO 2592
Pour point		°C	-40	DIN ISO 3016
TBN		mg KOH/g	7,9	DIN ISO 3771
Noack Volatility		%	8,4	ASTM D5800/b
Sulphated ash		%wt.	0,5	DIN 51 575
HTHS Viscosity		mPa*s	3,55	CEC L-36-A-90

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