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## -Certificate / ProductInformation -

### RAVENOL Turbo-C HD-C SAE 15W-40

Art. 1113103

#### Description:

**RAVENOL Turbo-C HD-C SAE 15W-40** is high quality multi-grade engine oil for passenger cars and trucks with diesel engines with or without turbo charger which has been adapted to the ever-growing demands. It is also suitable for use gasoline (petrol) engines. It has an excellent lubricating film adhesion and very good shear stability and an excellent cleaning power and high resistance to aging.

#### Application Directions:

**RAVENOL Turbo-C HD-C SAE 15W-40** is perfectly suited as all-season motor oil for the mixed fleet. It can be used in the commercial vehicle sector for operation and extended oil change interval (up to 45,000 kilometres are possible) according to manufacturer's specifications.

#### Quality Classification:

**RAVENOL Turbo-C HD-C SAE 15W-40** is approved, tried and tested for aggregates specifying:

Specification: API CF-4/CF/SL, A3/B4, E2

License: API SL

Approvals: MB-Approval 229.1, MB-Approval 228.3, MAN M 3275-1

Recommendations: MB 228.3, MAN 271, ZF TE-ML 07C, VW 505 00, Allison C-4, Caterpillar TO-2, Volvo VDS, MACK EO-L, MTU Type 2

#### Technical Characteristics:

**RAVENOL Turbo-C HD-C SAE 15W-40** offers:

- An excellent shear stability
- Very good cold start characteristics
- A very high oxidation stability
- Avoids the formation of coking and accumulation of mud (black sludge)
- A very stable and excellent viscosity behaviour
- Suitable for catalysts
- Convincing detergent and dispersant attributes
- High security reserves even under limited lubrication conditions

#### Technical Values:

Characteristics	unit	data	test according to
<b>Colour</b>		yellow brown	visual
<b>Density</b> at 20 °C	kg/m <sup>3</sup>	880	EN ISO 12185
<b>Viscosity</b> at 40 °C	mm <sup>2</sup> /s	97,5	DIN 51 562
at 100 °C	mm <sup>2</sup> /s	13,4	DIN 51 562
<b>Viscosity index VI</b>		137	DIN ISO 2909
<b>Flash point (COC)</b>	°C	221	DIN ISO 2592
<b>Pour point</b>	°C	- 28	DIN ISO 3016
<b>TBN</b>	mg KOH/g	7,5	DIN ISO 3771
<b>Sulphated ash</b>	% wt.	1,3	DIN 51 575

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

To the best of our knowledge all information reflects the current state of findings and our development. Subject to change. Any reference to DIN standards are solely for product description purposes and do not represent a guarantee. If problems occur please consult a technician.

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