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## - Certificate / ProductInformation -

### RAVENOL Motobike 4-T Mineral 20W-50

Art. 1173122

#### Description:

**RAVENOL Motobike 4-T Mineral 20W-50** is an engine oil on mineral oil base with excellent additives which was especially produced for 4 stroke motorbikes. With **RAVENOL Motobike 4-T Mineral 20W-50** a solid and high loadable engine oil was developed for superior engines of motorbikes with wet couplings and oil lubricated couplings.

**RAVENOL Motobike 4-T Mineral 20W-50** has an excellent lubricating film adhesive capacity and a very good shear stability as well as an excellent cleaning power and a high aging resistance.

#### Application directions:

**RAVENOL Motobike 4-T Mineral 20W-50** is suitable as an engine oil for all motorbikes in case the specification SAE 20W-50 JASO MA/MA2 is requested.

#### Quality classification:

**RAVENOL Motobike 4-T Mineral 20W-50** is approved, tried and tested for aggregates specifying:

API SM

JASO MA

Approvals: JASO MA2 T903:2006 with the reference No. M049RAV122

According to: Yamaha, Kawasaki, Honda, Aprilia, BMW, Suzuki, Ducati, Triumph, Moto-Guzzi.

#### Characteristics:

**RAVENOL Motobike 4-T Mineral 20W-50** offers:

- a very good shear stability
- very good cold start characteristics
- a high oxidation stability
- prevention of black sludge accumulation
- an excellent viscosity temperature behaviour
- suitable for catalysts
- convincing detergent and dispersant characteristics
- high safety reserves even under boundary lubrication conditions

#### Technical values:

Characteristics	unit	data	test according to
<b>Colour</b>		yellow brown	
<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	170,4	DIN 51 562
at 100 °C	mm <sup>2</sup> /s	19,31	DIN 51 562
<b>Viscosity index</b>		129	DIN ISO 2909
<b>JASO T904 DFI</b>		2,10	
<b>JASO T904 SFI</b>		1,74	
<b>JASO T904 STI</b>		2,07	
<b>Low Tem. Visc. CCS</b>	mPas	7327	ASTM D5293
<b>Noack evaporation test</b>	mass%	4,5	ASTM D5880
<b>TBN</b>	mg KOH/g	7,8	DIN ISO 3771
<b>Sulphated ash</b>	%wt.	1,08	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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