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PRODUCT INFORMATION *GERMAN ADLER SAE 20W-50 HD*

GERMAN ADLER SAE 20W-50 HD engine oil with high performance reserve for gasoline and diesel engines, both turbocharged and non-turbocharged.

Description

GERMAN ADLER SAE 20W-50 HD is especially recommended for use in mixed fleet operations requiring a single all-fleet engine oil.

Application

The product is specifically formulated to provide outstanding performance in turbocharged gasoline and diesel engines. Compared to conventional SAE grade 20W-50 oils, GERMAN ADLER SAE 20W-50 HD features a higher viscosity at oil temperatures above 100°C, providing extra protection under extreme operating conditions as frequently encountered in the hot season and in southern climates.

In compliance to EEC regulations the quality of GERMAN ADLER SAE 20W-50 HD is equivalent according to the following standards / specifications:

- ACEA A3/B4
- API SN/CF
- MB 229.1

Advantages/Benefits

- Excellent wear protection
- Very good detergency/dispersancy
- Efficiently control sludge build-up
- Especially recommended for all-season use in warm and in tropical climes
- For turbocharged and non-turbocharged
- Maximum protection during full-throttle rides in hot weather and fully retains its lubricity at high oil temperatures
- Protects cylinder walls from oil glazing

Typical characteristics:

	Unit	**Value**	**Method**
Density at 15°C	kg/m³	885	DIN 51 757
Viscosity at 40°C	mm²/s	172	DIN 51 562
Viscosity at 100°C	mm²/s	19,1	DIN 51 562
Viscosity index		126	DIN ISO 2909
Dynamic viscosity at -15°C	mPa.s	7680	DIN 51 377
HTHS viscosity at 150°C	mPa.s	min. 3.5	ASTM D5481
Pour point	°C	-36	DIN ISO 3016
Flash point	°C	238	DIN ISO 2592
TBN	mg KOH/g	10,7	DIN ISO 3771

The above data are true and correct to the best of our knowledge and belief and reflect the current state of knowledge and our development effort. All rights to changes reserved! The characteristic data indicated are subject to the repeatability and reproducibility of the given test methods.