



GERMAN ADLER GMBH

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## PRODUCT INFORMATION **GERMAN ADLER SAE 20W-50 PLUS**

SHPD-Motor oil with extended performance reserve. Specially designed for mix fleet application with gasoline and diesel engines fitted in passenger cars, trucks, off-road and farm equipment.

### Description

GERMAN ADLER SAE 20W-50 PLUS is a Super-High-Performance-Diesel (SHPD) engine oil. The unique composition of selected base oils with a modern additive package provides its outstanding wide application range.

### Application

GERMAN ADLER SAE 20W-50 PLUS to be used in accordance to manufacturers filling instructions in gasoline and diesel engines of several manufacturers. Its modern conception offers a broad range of applications for mixed fleets under a wide variety of conditions.

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

- ACEA E7-10
- ACEA A3/B4-10
- API CI-4/SL
- Allison C-4
- CAT ECF-1a/ECF-2
- Cummins CES 20071/-75/-76/-77/-78
- Deutz DQC III-10
- Fiat 9.55535-G2/D2
- GLOBAL DHD-1
- JASO DH-1
- Mack EO-M PLUS
- MAN M 3275
- MB 228.3/229.1
- MTU Type 2
- Renault RLD-2
- Volvo VDS-3

### Advantages/Benefits

- great rationalism product with multi functional applications in diesel and gasoline engines of several manufacturers
- perfect suited for passenger cars, also as for trucks, busses, farm and off-road equipment
- combines the specifications of European, American and Japanese manufacturers
- excellently suited for turbocharged engines
- reliably prevents from resin formation, varnishing and ring sticking of cylinders, pistons, valves and turbo chargers
- reliably all-season use
- stable lubricating film even under very hot oil temperatures and/or very high stress
- very low oil consumption and good oxidation protection
- miscible and compatible with conventional, also as synthetic branded engine oils. To make use of the full performance benefit of GERMAN ADLER SAE 20W-50 PLUS a complete oil change is recommended.

### Typical characteristics:

	Unit	Value	Method
<b>Density at 15°C</b>	kg/m <sup>3</sup>	882	DIN 51 757
<b>Viscosity at 40°C</b>	mm <sup>2</sup> /s	147,5	DIN 51 562
<b>Viscosity at 100°C</b>	mm <sup>2</sup> /s	17,7	DIN 51 562
<b>Viscosity index</b>		132	DIN ISO 2909
<b>CCS at -20°C</b>	mPa.s	5900	DIN 51 377
<b>Pour point</b>	°C	-33	DIN ISO 3016
<b>Flash point</b>	°C	234	DIN ISO 2592
<b>TBN</b>	mg KOH/g	10,8	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.