



Product Name: RÄDER 20W50 SL MA2

Application: 4-stroke motorcycle engines

JASO, API Service: JASO MA2, API SL

Viscosity Grade: 20W-50

Quality: Semi-synthetic

Recommended for: A wide range of motorcycles with 4-stroke engines, including those with exhaust after-treatment systems.

Drain Interval: Up to 12,000 km

Product Overview

RÄDER 20W50 SL MA2 is a semi-synthetic motor oil designed for high-performance motorcycles. It offers superior engine protection, reliability, and performance for on-road and off-road riding. This advanced formula is suitable for 4-stroke engines with or without integrated gearboxes, and both wet and dry clutches. It meets the stringent requirements of modern engines equipped with catalytic converters and exhaust after-treatment systems.

Application

- High-performance motorcycles used in sport, adventure, or touring.
- Severe conditions, including high-temperature environments and demanding riding styles.
- Applications such as ATVs, UTVs, personal watercraft (PWC), and snowmobiles (when manufacturer's viscosity recommendations match)

Performance Benefits

- **Reliable engine protection:** Reduces wear and tear.
- **Good thermal stability:** Maintains performance at high temperatures.
- **Smooth gear shifting:** Ensures optimal clutch performance.
- **Enhanced engine cleanliness:** Reduces deposits and sludge.

Meets and approvals:

- API SL
- API SJ
- JASO MA2
- JASO MA

Typical Properties

Property	Method	Unit	Typical Value
SAE Viscosity Grade	SAE J300	-	20W-50
Density @ 15°C	DIN 51757	g/cm ³	0.8712
Kinematic Viscosity @ 40°C	ASTM D445	mm ² /s	153.7
Kinematic Viscosity @ 100°C	ASTM D445	mm ² /s	18.48
Viscosity Index	DIN ISO 2909	-	135





Pour Point	DIN ISO 3016	°C	-30
Flash Point	DIN ISO 2592	°C	250
Total Base Number (TBN)	DIN ISO 3771	mg KOH/g	7.50
Sulfated Ash	DIN 51575	% weight	0.82
Noack Volatility	ASTM D5800	% weight	7.50

Recommendations

- Always follow the vehicle manufacturer's recommendations for oil type and drain intervals.
- Compatible with other synthetic and mineral oils, but maximum performance is achieved when used unmixed.

Safety and Handling

Refer to the Safety Data Sheet (SDS) for details on safe use and handling

