Product Name: RÄDER 20W40 MA2 SL
Application: Motorcycle 4T Engine
JASO, API Service: JASO MA2, API SL
Viscosity Grade: 20W-40
Quality: Semi-synthetic
Recommended for: 4-stroke gasoline engines in motorcycles, including models with moderate to high performance from leading global manufacturers
Drain Interval: Up to 10,000 km

Product Overview

RÄDER 20W40 SL MA2 is a high-quality semi-synthetic motorcycle oil formulated to deliver dependable performance and protection for modern 4-stroke motorcycle engines. Designed to meet API SL and JASO MA2 specifications, it provides a balance of protection, efficiency, and cost-effectiveness for a wide range of motorcycle applications.

Application

- Suitable for 4-stroke motorcycles with or without catalytic converters.
- Compatible with wet or dry clutch systems.
- Ideal for motorcycles used in daily commutes, sport, and moderate touring conditions

Performance Benefits

- **Enhanced Wear Resistance**: Protects critical engine components to extend engine life.
- **Optimized Clutch Performance**: Prevents clutch slippage and ensures smooth gear shifts.
- **Thermal and Oxidation Stability**: Retains performance in high temperatures, extending oil drain intervals.
- **Balanced Formulation**: Combines synthetic and mineral oils for a perfect blend of performance and economy.
- **Catalytic Converter Safe**: Protects emission systems with controlled additive chemistry.

Meets and approvals:

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

Typical Properties

Property	Method	Unit	Typical Value
Viscosity Grade	SAE J300	-	20W40
Density @ 15°C	ASTM D4052	g/cm³	0.8712
Kinematic Viscosity @ 40°C	ASTM D445	mm²/s	110.6
Kinematic Viscosity @ 100°C	ASTM D445	mm²/s	14.21

Viscosity Index	ASTM D2270	-	130
Pour Point	ASTM D97	°C	-33
Flash Point	ASTM D92	°C	250
Total Base Number (TBN)	ASTM D2896	mg KOH/g	7.5
Sulfated Ash	ASTM D874	% wt	0.82

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