



Product Name: RÄDER 20W50 SP MB

Application: Motorcycle 4T engine

JASO, API Service: MB, SP

Viscosity Grade: 20W50

Quality: Fully synthetic

Recommended for: 4-stroke motorcycle engines with exhaust after-treatment systems, including catalytic converters.

Drain Interval: Up to 16,000 km

Product Overview

RÄDER 20W50 SP MB is engineered with cutting-edge additive technology and high-quality synthetic base oils to meet the demands of modern 4-stroke engines. Its advanced formulation ensures reliable lubrication, reduced deposits, and enhanced fuel economy. Tailored for motorcycles equipped with catalytic converters and dry clutch systems, it guarantees smooth gear shifts, extended engine life, and superior protection under extreme conditions.

Application

RÄDER 20W50 SP MB is ideal for

- High-performance motorcycles used in sport, touring, or commuting.
- Engines with catalytic converters or other exhaust after-treatment systems.
- Severe conditions, including high temperatures and heavy loads.
- Scooters, motorcycles, and ATVs requiring API SP or JASO MB standards.

Performance Benefits

- Superior oil film strength for high-speed and high-temperature conditions.
- Exceptional engine cleanliness and deposit control.
- Enhanced dry clutch performance and smooth gear shifts.
- High oxidative stability and low evaporation loss.
- Fully compatible with catalytic converters for reduced emissions.

Meets and approvals:

- **API:** SP, SN Plus, SN, SL
- **JASO:** MB (2023), MA2

Typical Properties

| Property | Method | Typical Value |
|---------------------|-----------|--------------------------|
| SAE Viscosity Grade | SAE J300 | 20W-50 |
| Density @ 15°C | DIN 51757 | 0.8532 g/cm ³ |
| Viscosity @ 40°C | ASTM D445 | 126.1 mm ² /s |
| Viscosity @ 100°C | ASTM D445 | 18.43 mm ² /s |





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| Viscosity Index | DIN ISO 2909 | 164 |
| HTHS Viscosity @ 150°C | ASTM D4741 | 4.8 mPa.s |
| Pour Point | DIN ISO 3016 | -33 °C |
| Flash Point | DIN ISO 2592 | 240 °C |
| Evaporation Loss (Noack) | ASTM D5800 | 7.5 % |
| Total Base Number (TBN) | DIN ISO 3771 | 8.50 mg KOH/g |
| Sulfated Ash | DIN 51575 | 0.75 % |

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

