



## MOTUL 5000 20W-50 4T

**4-Stroke motorcycle engine lubricant  
Recreational & Utility  
HC-TECH® – Semi-synthetic**

### TYPE OF USE

**MOTUL 5000 4T** is a semi-synthetic 4-stroke motorcycle engine oil designed for all types of street and off-road motorcycles with 4-stroke engines, with or without integrated gearbox, and with wet or dry clutch. It is fully compatible with motorcycles equipped with exhaust after-treatment systems such as catalytic converters or secondary air injection.

The reliable **NGEN Core®** formulation combines re-refined base oils, virgin base oils, and HC-TECH® base stocks to deliver consistent protection and performance for street, trail, and off-road applications.

**MOTUL 5000 4T** is also suitable for ATVs, UTVs, Side-by-Side vehicles (SxS), and personal watercraft (PWC), in accordance with the manufacturer's viscosity recommendations.

### PERFORMANCES

STANDARDS                      API SN  
   JASO MA2 (2023) No. M033MOT245

PERFORMANCES                HARLEY-DAVIDSON MC - Meets HARLEY DAVIDSON specifications

Building on its long-standing pioneering expertise, Motul is once again leading the way with **NGEN Core®**, a new technology using re-refined base oils (RRBO). Combining high performance and sustainability, **NGEN Core®** technology allows motorcyclists to ride better, with no compromise on performance and less impact on the environment.

Packaged in a fully recyclable bottle made from 50% recycled plastic, **MOTUL 5000 4T** contributes to reduced environmental impact without compromising performance.

**MOTUL 5000 4T's** formulation delivers optimized engine response and smooth operation across all temperature ranges and riding conditions, while remaining fully compatible with JASO T903 MA2 wet clutch requirements.

**HC-TECH®** base stocks combined with high-performance anti-wear additives provide comprehensive engine protection and help extend the service life of gearbox and transmission components.

The dedicated semi-synthetic formulation ensures smooth power delivery, rapid cold-start performance, and responsive engine operation under all operating conditions.

We retain the right to modify the general characteristics of our products in order to offer to our customers the latest technical development.

Product specifications are definitive from the order which is subject to our general conditions of sale and warranty.

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### Features and benefits

- **HC-TECH® Base Stocks** – Semi-synthetic, high-performance base oils formulated for superior oxidation stability, low volatility, and consistent lubrication under severe operating conditions.
  - **Engine Protection** – Provides comprehensive anti-wear and thermal protection across a wide range of temperatures and riding conditions, maintaining engine integrity in compliance with JASO T903 MA2 standards.
  - **Extended Gearbox Lifetime** – Optimized frictional and shear characteristics reduce gear wear and clutch slippage, extending gearbox and transmission component service life.
  - **Maximum Performance** – Supports rapid cold-start performance, smooth clutch engagement, and precise gear shifting while maintaining optimal fuel efficiency.
  - **Sustainable Packaging** – Fully recyclable bottle design reduces environmental impact while ensuring product integrity and storage stability.
- The API SM standard was designed to offer better oxidation resistance, strict deposit protection, low wear of components and low temperature performance over the life span of the engine.
- JASO (Japanese Automobile Standards Organization) has developed its own standard for 4-stroke motorcycle engine oils - JASO T903: 2023. It consists of three parts: Engine performance, clutch friction performance, physicochemical limits.
- Specification JASO MA2 provides the most efficient friction values to ensure best clutch friction engagement in all riding modes.

### RECOMMENDATIONS

Drain interval: Up to 10,000 km, depending on manufacturer's recommendations or individual use.  
Can be mixed with synthetic or mineral lubricants.

### PROPERTIES

Color	ASTM D1500	Scale 2.5 - 4.5 (dark yellow - dark amber)
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Viscosity grade	SAE J 300	20W-50
Density at 20°C (68°F)	ASTM D1298	0.872
Viscosity at 40°C (104°F)	ASTM D445	159.0 mm <sup>2</sup> /s
Viscosity at 100°C (212°F)	ASTM D445	18.9 mm <sup>2</sup> /s
Viscosity Index	ASTM D2270	134.0
Pour point	ASTM D97	-30.0 °C / -22.0 °F
TBN	ASTM D2896	6.8 mg KOH/g
Flash point	ASTM D92	258.0 °C / 496.0 °F

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