

**NGEN** Core®

The New

**MOTUL**

Technology Label



Press Kit  
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## Introduction

Backed by more than 170 years of innovation and commitment to competition, Motul launches its new technology label, NGEN Core®, incorporating re-refined base oil (RRBO). With no compromise on performance, this label demonstrates that it is possible to integrate a sustainable approach from sourcing to formulation and packaging.

### NGEN Core® promise



**No compromise on performance:** engine protection, viscosity stability, oil longevity, and riding pleasure remain at the heart of our formulations.



**A reduced environmental footprint:** the use of RRBO helps reduce dependence on fossil fuels and supports a circular economy.



**An effortless transition:** NGEN Core® products are designed as direct replacements for conventional lubricants, with no change in habits for distributors, workshops, or motorcyclists.



### Innovation as a common thread through the decades

Since 1853, Motul has established itself as a benchmark player in high-performance lubricants, thanks to major innovations such as Motul Century, the first multigrade oil, Century 2100, the first semi-synthetic oil, and 300V, the first 100% synthetic ester-based oil.

With ESTER Core® technology, launched in 2011 and incorporating synthetic esters originally developed for aeronautical lubricants, Motul combines two worlds for the first time: aeronautics and vehicle lubrication, pushing back the limits of performance in the sector. NGEN Core®, Motul's latest technology label, is the embodiment of its approach to sustainable innovation. Like ESTER Core®, it shares the same ambition to deliver a high level of performance and quality to customers.



# The technology behind NGEN Core®

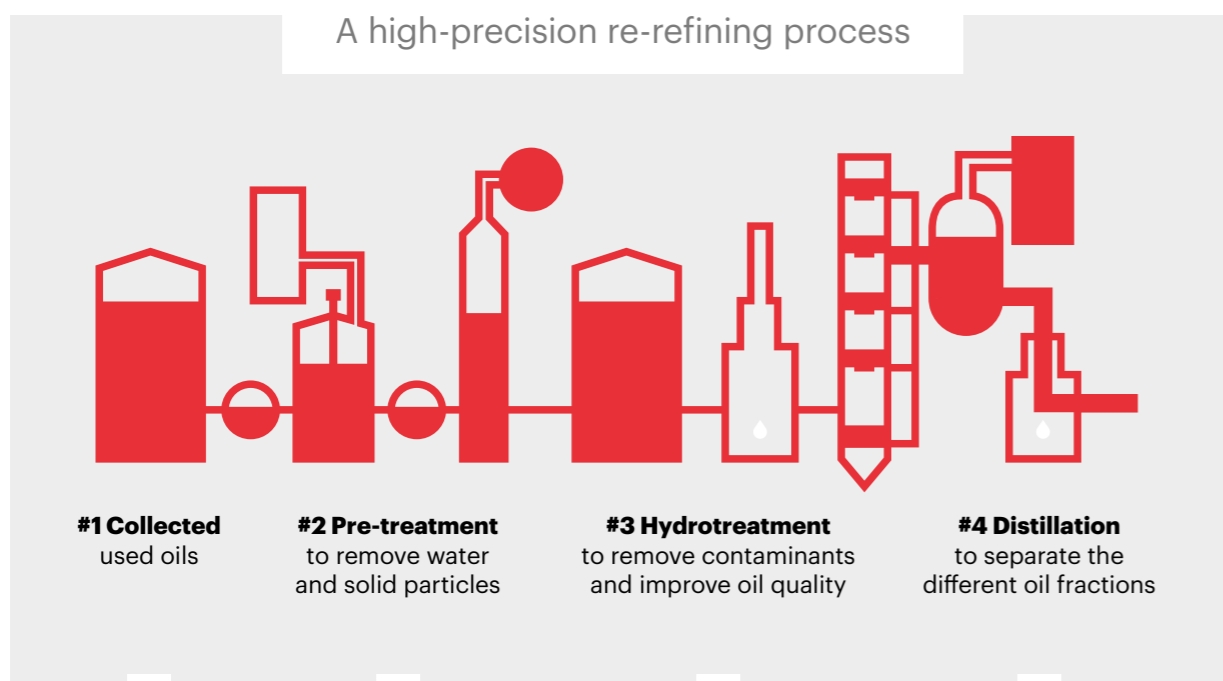
## The technological process

RRBO is produced from collected used oil, purified and transformed using advanced refining processes. This way, it achieves a level of purity and performance at least equivalent to that of virgin base oil.

As with all its ranges, Motul maintains a high level of quality in its components and sources the best, exclusively premium RRBO, to meet its customers' requirements.

In practice, used oil, initially loaded with impurities, first undergoes pre-treatment to remove water and solid particles. They then go through a hydrotreatment phase, during which hydrogen is used to remove chemical contaminants and improve overall product quality. Finally, vacuum distillation separates the various components according to their boiling points to obtain a re-refined lubricant base ready for re-use.

A high-precision re-refining process



## Innovating the future

NGEN Core® is at the heart of Motul's commitment strategy. On the environmental front, this strategy focuses on three main areas:

- **integrate re-refined base oil** into formulations;
- **increase the use of recycled materials in packaging**, with the goal of raising the proportion of recycled plastic from the current 50% to 75% by 2027;
- **improve the environmental performance** of production and logistics.

## RRBO's concrete response to the challenges of sustainability

RRBO is the future of lubricants, reducing carbon emissions by 40% compared to virgin base oil.



### A solution for reusing used oil

Around half of all used lubricating oil is currently not reused, with all the associated pollution risks: one liter of used oil can contaminate up to one million liters of water<sup>1</sup>. Re-refined base oil taps into the high recovery potential of used oil and de facto reduce the impact on the environment.



### Resource efficiency

RRBO reduces the need for new oil sources and uses less energy for extraction and production. The circular economy model allows virtually unlimited reuse of oil.



### Changing attitudes

Environmentally conscious consumers are increasingly in favor of circular approaches and now see RRBO as a positive criteria compared to conventional lubricants: 81% would prefer an RRBO-based solution when available<sup>2</sup>.

1. Source: European Commission

2. Source: Survey of an international panel of over 2,000 participants

# From breakthrough innovation to range essential

Since 2023, Motul has been among the first lubricant manufacturers to integrate RRBO into its formulations for the most common applications, once again demonstrating its pioneering spirit.

**RRBO has been introduced in several products across the car and motorcycle ranges.**

- **NGEN Hybrid.** First automotive range made entirely with products incorporating RRBO.
- **NGEN 4.** First RRBO-based product to obtain OEM approval.
- **NGEN 7.** First RRBO-based lubricant to complete the Dakar Rally and other events such as the Kawasaki ZX-4RR Cup in France and Germany, proving its ability to protect engines in extreme environments and deliver performance comparable to conventional lubricants.

Through racing trials and feedback from early users, Motul confirmed the effectiveness and performance of re-refined base oil. **The company decided to create the NGEN Core® technology and gradually roll it out across its entire product range.**

From 2026, NGEN Core® will be integrated into the 3000, 5000, and 5100 references of the 4-stroke motorcycle range. It will then be gradually extended to the 7100 range, and ultimately to the entire portfolio, making «sustainable performance» the new Motul standard

# The new motorcycle range

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## 3000 NGEN Core®

Motul 3000 is a NGEN Core® motorcycle mineral-based engine oil, combining high-quality re-refined base oil and virgin oil with advanced additives for on-road, street, and off-road motorcycles.

Motul 3000 is suitable for motorcycles, ATVs, and UTVs.

**Available viscosity grades:** 10W-40 — 15W-50 — 20W-50.

Its unique JASO MA2:2023 and API SM formulation offers:



### Performance

Optimized engine response, reliable starting, and smooth operation in all riding conditions, in compliance with JASO MA2 gearboxes with wet clutch requirements.



### Protection

Extreme pressure additives (EP) and wear protection additives for gearbox and transmission components, even under the most demanding conditions.



### Engine cleanliness

A high-detergent and high-dispersant formulation that prevents sludge and deposit formation and keeps the engine clean in a wide range of operating conditions.



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## 5000 NGEN Core®

Motul 5000 is a NGEN Core® semi-synthetic motorcycle engine oil combining re-refined base oil, virgin oil, and HC TECH® bases for road, trail, and off-road motorcycles.

Motul 5000 is suitable for motorcycles, ATVs, and UTVs. Its unique formulation meets JASO MA2:2023 and API SN requirements.

**Available viscosity grades:** 10W-30 — 10W-40 — 20W-50.

The formulation offers :



### Performance

Optimized engine response and smooth operation over the entire temperature range and in all riding conditions, perfectly compatible with the strict requirements of JASO MA2.



### Protection

HC-TECH® bases combined with high-performance wear protection additives provide complete engine and gearbox protection and extend component life.



### Easy starting

Dedicated semi-synthetic formulation ensures smooth power delivery, good cold-start performance, and a responsive engine in all operating conditions.

**The 3000 20W-50 formulation has been optimized to improve sustainability while delivering enhanced viscosity characteristics.**

- **Cold-start properties have been improved:** CCS viscosity improved by 19%.
- **The viscosity index has been increased** for more consistent protection, from cold start-up to high temperatures.
- **HTHS (High Temperature High Shear) viscosity has been improved**, providing enhanced wear protection for bearings and timing gears in severe operating conditions.

**The 5000 20W-50 formulation has been optimized to enhance sustainability and improve viscosity characteristics.**

- **Cold-start performance has been enhanced:** CCS viscosity improved by 10%.
- **The viscosity index has been increased** to deliver more consistent protection from cold start to high operating temperatures.
- **HTHS viscosity has been improved by more than 2%**, enhancing wear protection for bearings and valve train under severe operating conditions.



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## 5100 NGEN Core®

Motul 5100 is a high-performance NGEN Core® semi-synthetic motorcycle engine oil, combining re-refined base oil, virgin oil, and exclusive Technosynthese® ester technology.

Designed for enthusiastic daily riders and recreational users, Motul 5100 is suitable for motorcycles, ATVs, and UTVs.

**Available viscosity grades:** 10W-30 — 10W-40 — 10W-50 — 15W-50 — 20W-50.

Its unique formulation meets JASO MA2:2023 and API SP standards and offers:



### Performance

Stable friction characteristics in line with JASO MA2 requirements, ensuring consistent clutch engagement, precise gear shifting, and controlled engine power delivery across the entire operating temperature range.



### Protection

Ester-reinforced formulation with a high-performance wear protection additive system, ensuring a robust oil film, reduced micropitting and gear seizure, and extended protection of engine and transmission components under heavy loads.



### Fuel economy

Oil film resistance at high temperatures provides constant lubrication under high thermal stress, reducing internal friction and contributing to optimize fuel consumption, while remaining fully compatible with JASO MA2 gearboxes with wet clutch performance.

- **Technosynthese® ester technology** – Premium ester-enriched semi-synthetic oil offering protection against wear and oxidation for modern 4-stroke engines.
- **High-temperature stability** – Maintains HTHS viscosity for extended protection under extreme heat and stress.
- **Catalyst compatible** – Low phosphorus and sulfur contents, preserves catalysts while ensuring JASO MA2 gearboxes with wet clutch performance.
- **Maximum performance** – Smooth clutch engagement, precise shifting, rapid acceleration response, improved fuel economy, and reliable cold starts.

## More modern, easier-to-read labels for the entire 4T motorcycle range

Alongside these evolving formulations, Motul is also rethinking its product packaging to deliver an optimized user experience.

**The front label** presents all key user information in a clear, structured way, with enhanced graphics.



**The viscosity grade**, the most important piece of information, is highlighted at the top of the label for immediate visibility.

**The Motul logo**, the true visual anchor of the label, is placed in the center.

**Key information on the product and its use, the range, oil quality and USP pictograms** enables motorcyclists and professionals to quickly understand the product's positioning and select the right oil.

**Type of formulation**, further highlighted by a color code:

- mineral oil
- semi-synthetic oil
- TECHNOSYNTHÈSE® formulations
- 100% synthetic oil

**The back label** provides additional details on product benefits and includes all regulatory and certification information – such as API performance levels and JASO approvals – as well as product identification details: EAN code, SKU, and country of manufacture.

# About Motul

Motul specializes in the formulation, production and distribution of premium lubricants designed to optimize performance in many fields: motorsports, passenger cars and Heavy Duty applications. A pioneer in the development of synthetic oil, Motul launched its flagship product, 300V, the first 100% synthetic multigrade lubricant, in 1971. Building on this unique know-how, Motul today extends its expertise to maintenance products for automobiles, motorcycles and bicycles, as well as new-generation fluids for the thermal management of electric vehicle batteries and digital infrastructures such as data centers, to meet future challenges in terms of performance and sustainability.

Founded in 1853, Motul is present in 160 countries and has established itself over the years as a trusted partner to the world's leading manufacturers, motorsport teams and championships, including the 24 Hours of Le Mans, WEC, MotoGP, Dakar, Goodwood and the UCI Mountain Bike World Series.

[www.motul.com/corporate](http://www.motul.com/corporate)

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