Engine Oil for Motorcycles

Catalogue



MCO ACTION SERIES



MXR ACTION SERIES

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INTRODUCTION

When you choose Repsol Lubricants, you get so much more. Because in addition to a product of the highest quality, you also get the Repsol guarantee: an integrated global energy company that carries out exploration, production, refining, distribution, and marketing activities in more than 90 countries. You also choose maximum innovation. Because Repsol has a Technology Centre at the global forefront of R&D&I, where our technicians and researchers are continuously improving each product to ensure maximum efficiency and the highest level of technical and environmental quality.

MAXIMUM QUALITY

Repsol Lubricants surpass the most relevant sector standards and norms. Our products have been tested in competition and our philosophy is to innovate to move forward. Our lubricants improve the durability of engines and exhaust gas after-treatment systems, complying with sector regulations. They also guarantee fuel economy and reduce CO2 emissions in the most advanced engines. At Repsol, we select the best refining processes to manufacture our own lubricant base oils. Combined with the use of the highest-quality additives, this offers you products with specific formulations for each manufacturer that takes care of your engine and gives you the extra confidence you need.

NEW ACTION SERIES

New streamlined range architecture for an easier lubricant selection. Choose the ideal product according to your needs:

MXR Platinum: Fully synthetic motorcycle oil meeting the latest API standards and JASO MA2 qualification. Designed for maximum durability, cleanliness, wear protection, and optimum gear shifting. MXR Matic Platinum: Fully Synthetic engine oil with Matic Cooling Tech. Durable formula optimized to reduce friction, allow the engine to run cooler, and allow maximum power output.
MXR Plus: Semi-Synthetic Motorcycle oil designed with engine protection and cleanliness, and optimum gear shifting as the primary goals.
MXR Matic: Mineral-based engine oil with Matic Cooling Tech. Designed to reduce friction, allowing the engine to run cooler.
MXR 7, 5, 3: Mineral-based motorcycle oils specially formulated for a wide range of motorcycles. Some with higher viscosities to suit older engines.

NEW FORMULA



All Action series engine oils are designed to achieve top results in 3 key areas:

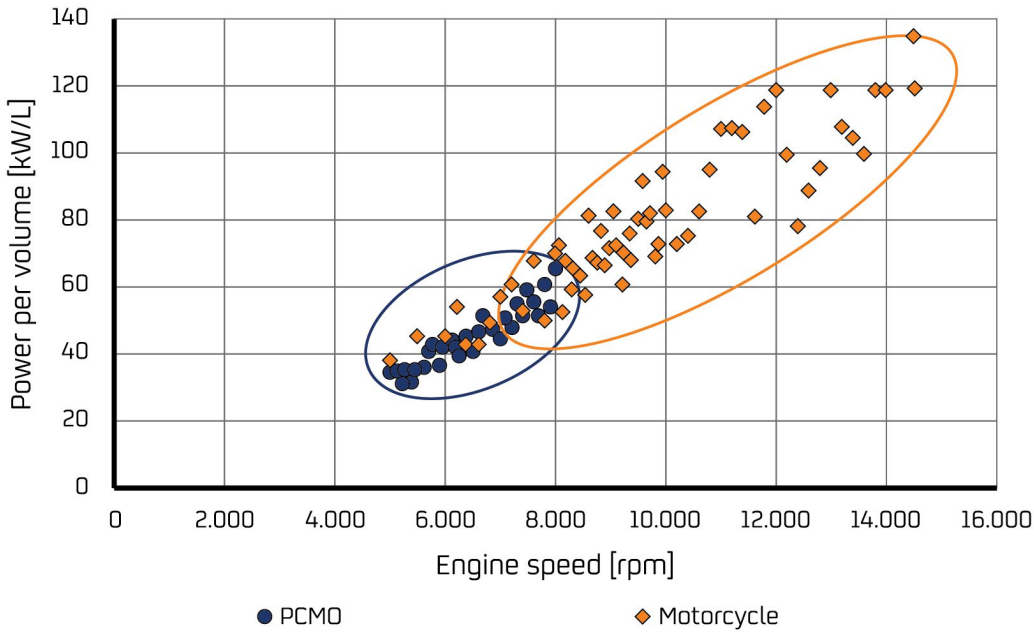
Wear protection: XR Tech is reinforced anti-wear chemistry designed to reduce wear in all the critical areas in the engine. A protective oil film is generated between metal parts to prevent rubbing, thus improving performance and reducing the metallic wear under different engine operating conditions. Up to 30% less wear in cylinder liner found in Mack T-10 bench test.

Engine Cleanliness: XR Tech uses dispersant additives that keep soot particles in suspension and control sludge build-up, thus preventing blockage in engine parts with tighter tolerances. This way, it manages to enhance the performance of the oil during the drain interval, effectively extending the lubricant's life so it can protect the engine better and for a longer time.

Oil durability: XR Tech uses highly refined base oils combined with carefully selected additives, which results in lubricants with improved oxidation control. An engine oil more resistant against oxidation maintains its properties for a more extended period of time and thus ensures optimum protection during the whole drain interval.

MOTORCYCLE OILS BASICS

Compared to car engines, motorcycle engines run under more severe conditions, putting the oil into a more challenging lubrication environment. Lubricating film strength is the key to avoid metal rubbing against metal.



*Adapted from the Specification Table, JSAE, 1994

Oil sump volumes of MCO are 3-4 times smaller than a normal car oil sump. Enhanced antioxidant feature is required to reach desired drain oil intervals without performance depletion.

Less efficient cooling system (Forced cooling system in PCMO vs air/water cooling system in MCO), means higher temperatures into the lubrication system. Very low evaporation losses in the oil will guarantee the right viscosity along its use.

For wet clutch motorcycles, the same oil has to lubricate the engine, clutch and transmission. This requires a wider set of features, in order for the oil to reach the right performance in all the lubricated parts. A lubricant with JASO MA2 qualification will generate enough friction hinder clutch slipping.

Automatic scooters, on the other hand, keep the engine and the transmission systems separate and specific oils can be used for each one. In this case, lubricants meeting JASO MB can be used. These lubricants are tuned for lower friction, which allows to reduce the oil consumption, and achieve lower operating temperatures in the engine.

THE FRICTION EQUATION

Wet clutch motorcycles:

Motorcycles with wet clutch use the lubricant for both engine, clutch, and transmission. Unfortunately, this creates a complication since what works best in the engine (lower friction) would cause the clutch to slip, making the gear shifting unreliable.

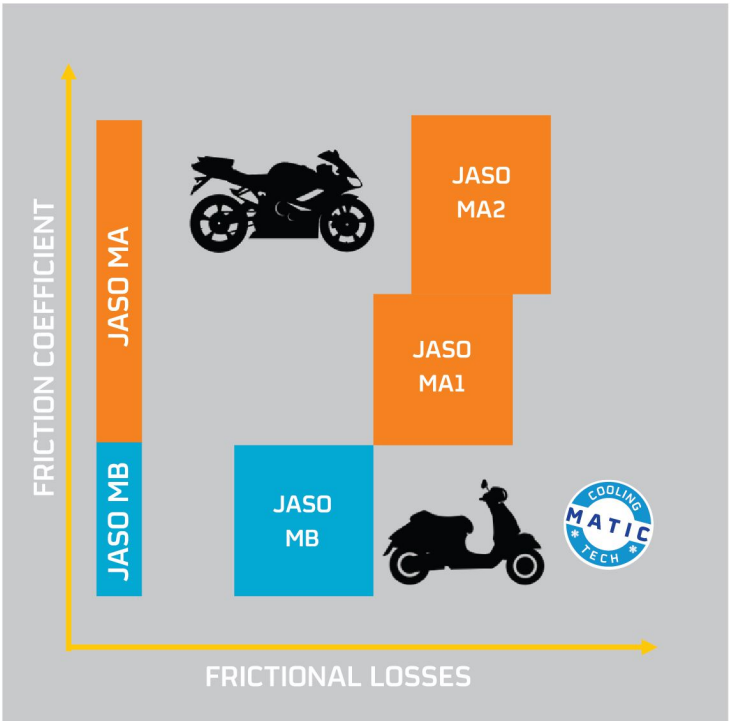
To counter this, lubricants for motorcycles with wet clutch are designed with higher friction in mind. The JASO standards regulate this property and act as a reference for all the industry.

Action series lubricants from MXR 5 and above all meet JASO MA2, which means the gear shifting will be fast and responsive, even when high torque is required.

Matic Cooling Tech

Motorcycles with dry clutch (primarily scooters) use continuously variable transmissions (CVT) housed separately from the engine. Hence, two different lubricants are used for the engine and the gearbox. This means the gear oil will be optimized to achieve the best CVT performance, and the engine oil can be optimized for lower friction. Reducing frictional losses leads to lower operating temperatures in the engine and higher fuel efficiency.

All Repsol Action series MXR MATIC products come equipped with Matic Cooling Tech and are the best option for your engine if you have a motorcycle with a dry clutch. However, using it with a motorcycle with a wet clutch will result in poor performance. Always consult your motorcycle's maintenance manual before choosing the lubricant.



- A higher friction coefficient is needed to guarantee good clutch engagement. The more powerful the motorcycle, the higher the friction coefficient should be. Most motorcycles require JASO MA2, which covers the most demanding applications.
- JASO MA or JASO MA1 is usually recommended for motorcycles with smaller cc. Check the motorcycle maintenance manual to determine which is the best motorcycle oil for your bike.
- JASO MB is suitable for motorcycles with a separate lubrication circuit for gear/clutch and the engine. The engine oil can be optimized for lower friction. Repsol lubricants come with Matic Cooling Tech, which allows the engine to run cooler and save fuel.

PRODUCT LINE UP

			Viscosity	API/JASO
	MXR PLATINUM	Fully Synthetic	10W-40	API SN, JASO MA2
	MXR MATIC PLATINUM		10W-30, 10W-40	API SN, JASO MB
	MXR PLUS	Semi Synthetic	10W-40	API SN, JASO MA2
	MXR 7	Mineral	10W-40, 15W-40	API SN, JASO MA2
	MXR 5		15W-40, 20W-40, 20W-50	API SN, JASO MA2
	MXR MATIC		10W-30, 10W-40, 20W-40	API SL, JASO MB
	MXR 3		15W-40, 20W-50, 40	API SG, JASO MA
	MXR 2T			API TC, TB, JASO FB

MXR PLATINUM

FULLY SYNTHETIC

10W-40



Repsol MXR Platinum is a top-tier, fully synthetic motorcycle oil. It provides maximum protection to the engine, gears, and clutch while ensuring optimum clutch performance. In addition, the fully-synthetic base oils make this lubricant more resistant to oxidation extending its service life, while the carefully selected additives give the engine the ultimate boost.

API SN, JASO MA2

MXR MATIC PLATINUM

FULLY SYNTHETIC

10W-30 and 10W-40



Repsol MXR Matic Platinum is an ultra-high-quality engine oil for high-performance 4T engines. It contains special additives that improve lubricity and maintain a low friction coefficient. These additives are also following the quality standards of JASO MB. Therefore, it is recommended for motorcycles that require a low-friction lubricant. JASO MB is recommended especially for dry-clutch scooters and automatic-transmission motorcycles.

API SN, JASO MB



MXR PLUS

SEMI SYNTHETIC

10W-40



Repsol MXR Plus is the most suitable semi-synthetic lubricant oil for modern 4-stroke engines. It provides maximum protection for medium and high cylinder capacity engines with one, two, three, or four cylinders. It ensures the care of all its components and the proper lubrication of wet clutches. It is widely regarded as a lubricant that boosts the throttle response.

API SN, JASO MA2

MXR 7

MINERAL

10W-40 and 15W-40



Repsol MXR 7 is a top-tier multigrade lubricant oil suitable for modern 4-stroke engines. Its carefully selected additives offer ultimate performance, giving this product a competitive edge over similarly specced products. The lubricant has excellent wear protection for medium to high cylinder capacity engines. In addition, it provides outstanding protection for the gear and wet clutch and ensures optimum clutch response and quick gear shifting. On top of this, oil consumption with this lubricant will be very low, allowing for continued usage with no need to top up.

API SN, JASO MA2

MXR 5

MINERAL

15W-40, 20W-40, and 20W-50



Repsol MXR 5 is a lubricant oil suitable for low, medium, and high cylinder capacity 4-stroke engines. Due to its unique composition, Repsol MXR 5 is particularly apt for riding long distances without performance loss or the premature wear of different engine components. Furthermore, given the oil's exceptional viscosity range, it is ideal for making long journeys, as motorists do not have to monitor constantly consumption levels. Its frictional properties also ensure smooth gear shifting.

API SL, JASO MA2

MXR MATIC

MINERAL

10W-30, 10W-40, and 20W-40



Repsol MXR Matic is a lubricant for four-stroke engines, developed to meet the requirements of the most important motorcycle manufacturers in the world. Designed to be used in automatic motorcycles, this product is equipped with friction modifiers to protect the engine while reducing friction and fuel consumption. Lower friction also means a more optimal power output and a more agile engine. Suitable whenever a JASO MB quality is required.

API SL, JASO MB

MXR 3

MINERAL

15W-40, 20W-50, and 40



Repsol MXR 3 is a mineral-grade lubricant oil for 4-stroke engines. It is designed as a general use oil to protect hard-working, high mileage engines against wear. It is specially formulated for demanding riding conditions. Its viscosity allows for optimal lubricity in the harshest environments and offers a special sealing effect in the combustion chamber to maximize power output. Especially ideal for the high-temperature climate. It also presents exceptionally low oil consumption. In addition, its frictional properties guarantee smooth gear shifting.

API SG, JASO MA

MXR 2T

MINERAL



Repsol MXR 2T is a lubricant oil suitable for general usage in 2-stroke engines. Apt for a wide range of motorcycles, this product is mainly recommended for urban use. A clean, good quality oil protects the engine and prevents ring sticking while keeping exhaust vents clean and reducing smoke emissions. Additionally, it supports very high temperature operating conditions, prevalent due to city traffic during intensive usage. It also supports weight-bearing activities such as carrying passengers on a scooter or a small cylinder capacity motorcycle.

API TC, TB, JASO FB

Find the best lubricant for your motorcycle!

Use the **REPSOL LUBRICANT SEARCH ENGINE** and the perfect lubricant for your vehicle.

You can search by **brand**, **model**, or **version.**





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