



MOTUL 300V² FACTORY LINE 10W-50 4T



Motorcycle Racing Motor Oil
ESTER Core® Technology

TYPE OF USE

Cutting-edge technology lubricant developed for Factory Teams but also for high performance stock motorcycles, designed to offer maximum power output and better clutch grip control with outstanding engine and gearbox protection when running in all types of extreme conditions.

Suitable for 4 stroke engines with or without an integrated gearbox and with wet or dry clutch.

For stock, tuned and racing engines operating at very high temperature from low to high revs.

PERFORMANCES

STANDARDS

Supera las especificaciones vigentes

Above existing standards / FIM (Fédération International de Motocyclisme) Quality Product

PERFORMANCES

JALOS - Wet clutch compatibility checked on JASO T903 test.

TYPE OF USE: Speed bikes, MotoGP, SuperSport, Superbike, uphill, hill climb, Dirt bikes, Cross bikes MX, ...

ESTER Core® TECHNOLOGY

For decades Motul has developed high performance synthetic Ester based lubricants.

This Motul 300V² includes the latest evolutions of Motul's proprietary **ESTER Core®** Technology to ensure maximum engine power output without compromising reliability and wear protection.

Motul has created a perfect synergy formula to increase performance and protection of the engine by selecting esters over other high performance synthetic and organic base stocks and combining them with an innovative additive package while limiting its environmental impact.

Esters are polar molecules hence are attracted to metallic surfaces. **ESTER Core®** Technology features optimized polarity for maximal adherence of the oil film to increase engine protection, reliability and rideability, even in the most extreme conditions. Only Motul 300V and 300V² ranges offers this exclusive technology to guarantee increased engine performance and protection.

OFF ROAD USE BENEFITS :

- **INCREASED TORQUE** - Low oil film traction at low revolution speed :

Torque improvement above 1% against a 15W-60 reference oil measured on Honda 450 CRF engine mounted on the

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

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dynamometer.

Motul 300V² 4T Factory Line 10W-50 increases the torque allowing faster acceleration and better control of the bike.

- INCREASED CLUTCH GRIP - Optimized friction control :

The JASO T903 test evaluate the frictional performance of the clutch and fluid combination over a wide speed range.

Motul 300V² 4T Factory Line 10W-50 showed 2.3 % of friction improvement against a competitor 10W-50 used as reference oil thus allowing better motricity and traction control in tough riding conditions.

- INCREASED GEARBOX RELIABILITY - High shear stability of the oil film :

The FZG (Forschungsstelle für Zahnräder und Getriebebau) Test, evaluates fluid lubricating and wear protection properties at the interface of a loaded set of gears.

Motul 300V² 4T Factory Line 10W-50 based on an innovative anti-wear additives package showed very strong shear stability and protection performance with only 0.26% of pitting on one gear tooth out of 16 after the 300 Hours test run at 3,000 rpm.

ON ROAD USE BENEFITS :

- INCREASED MAXIMUM POWER OUTPUT - Low oil film friction at high revolution speed :

Power improvement of 1.3 hp @ 14,000 rpm against a 10W-50 competitor used as reference oil on Suzuki GSX-R 1000cc engine mounted on the dynamometer.

Motul 300V² 4T Factory Line 10W-50 increases the engine power output allowing faster throttle response, higher straight line and cornering speeds.

- INCREASED OIL DURABILITY - Optimized oxidation stability and protection :

The PDSC (Pressure Differential Scanning Calorimeter) test method evaluates the oxidation induction time of the oil subjected to high pressure and temperature (210°C) under static atmosphere.

Motul 300V² 4T Factory Line 10W-50 showed an induction oxidation time of 176 minutes outperforming by 44% the 10W-50 competitor used as reference oil.

The Daimler Oxidation Test method evaluates the oxidation time of the oil subjected to a combination of high temperature (156°C), air flow (10L/h) and catalyzer.

Motul 300V² 4T Factory Line 10W-50 showed outstanding oxidation resistance and stay in grade performance over the 168 Hours cycle by remaining in the 10W-50 grade when the 10W-50 competitor used as reference oil has been dropping significantly to a 10W-40 viscosity grade.

Motul 300V² 4T Factory Line 10W-50 allows higher running temperature without compromising engine protection.



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- CONSTANT ENGINE PERFORMANCE - Improved engine cleanliness :

The Panel Coker Test methods evaluates the tendency of the oil to form deposits when in contact with high temperatures surfaces (320°C).

Motul 300V² 4T Factory Line 10W-50 showed very low coke deposit level with a merit rating outperforming by 7.6% the 10W-50 competitor used as reference oil.

Motul 300V² 4T Factory Line 10W-50 allows outstanding engine cleanness and constant performance over the drain interval.

ORGANIC BASE



The **Organic base** using non-fossil renewable materials is limiting the environmental impact and allows Motul to lower its carbon footprint by 18% during manufacturing process.

The Motul 300V² 4T Factory Line 10W-50 allows stable oil pressure and bring the best compromise between power and reliability to your engine in all extreme conditions.

This Motul 300V² 4T Factory Line 10W-50 can cope with engines subject to mid engine oil dilution from unburned fuel.

RECOMMENDATIONS

For maximum engine and gearbox performance, avoid mixing with other synthetic or mineral lubricants.

Oil change: according to your own use.

PROPERTIES

Color	Visual	Amber
Viscosity grade	SAE J 300	10W-50

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Density at 20°C (68°F)	ASTM D1298	0.871
Viscosity at 40°C (104°F)	ASTM D445	107.5 mm ² /s
Viscosity at 100°C (212°F)	ASTM D445	17.7 mm ² /s
Viscosity Index	ASTM D2270	182.0
Pour point	ASTM D97	-36.0 °C / -33.0 °F
TBN	ASTM D2896	9.5 mg KOH/g
Flash point	ASTM D92	218.0 °C / 424.0 °F

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