MOTUL 300V POWER SERIES

Car racing motor oil

ESTER Core® Technology

TYPE OF USE

All racing gasoline or Diesel engines, naturally aspirated, turbocharged or supercharged fitted with injection (direct/indirect) or carburetted.
For tuned engines and high performance cars operating over a wide range of rpm and temperatures, in severe driving conditions.
Suitable for all types of fuels, gasoline, Diesel and biofuels (especially Ethanol).

PERFORMANCES

STANDARDS	Above existing standards.
TYPE OF USE	Circuit, Drag race, Drift, Endurance, GT, Hill climb, Historic racing, Rally, Rally cross, Track days, Tuning… **Consult your tuning service partner for appropriate type of use.**

ESTER **Core® Technology**

For decades MOTUL has developed high performance synthetic Ester based lubricants.
The ***300V*** Line 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 selecting esters over other high performance synthetic and organic base stocks and combining them with an innovative additive package. This exclusive Racing formulation now features biofuels (especially Ethanol) and particulate filter compatibility, LSPI protection and lowers 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 driveability, even in most extreme conditions.
Used only in the ***300V*** range, this exclusive technology guarantees you more:

- Maximum power output: Friction reduction for maximum power and torque at all rpm
- Reliability: High shear stability for maximal oil film resistance to reduced engine wear
- Life: Increased oxidation resistance for longer engine & oil life duration
- Driveability: Maximal polar adherence of the oil film for rapid engine rpm response
- Easy start: Fast oil pressure build-up and optimal oil flow
- Reduced oil consumption: Low oil volatility and evaporation helps to control oil consumption
- Detergency: High detergency performance allows better engine cleanliness
- Driving comfort: Lower friction level brings engine noise reduction in all driving modes

This racing formulation ***300V*** with exclusive ***ESTER*** Core® Technology features biofuels and particulate filter compatibility and LSPI protection.

- Biofuels: Compatible with alcohol-based fuels, especially Ethanol (up to E85)
- LPSI protection: Compatible with downsized engines subjected to Low Speed Pre-Ignition issues
- Particulate filter: Compatible with particulate filter requiring reduced SAPS *(Sulfated Ash, Phosphorous, Sulfur)* level *(SAPS: 0.85% weight and TBN: 7.7 mg KOH/g)*

MOTUL - 119 Bd Félix Faure - 93303 Aubervilliers Cedex - BP 94 – FRANCE. Tel: 33 1 48 11 70 00 - Fax: 33 1 48 33 28 79. Web Site: www.motul.com

ORGANIC BASE

The Organic base using non-fossil renewable materials is limiting the environmental impact and allows MOTUL to lower its carbon footprint by 25% during manufacturing process.

The ***300V*** POWER series viscosity grades allow stable oil pressure and bring the maximum power to your engine in all extreme conditions.
These ***300V*** POWER series viscosity grades can cope with engines subject to low engine oil dilution from unburned fuel.

RECOMMENDATIONS

- MOTUL ***300V*** POWER series are suitable for some engine applications and are particularly recommended for qualifying, short race… etc, requiring enhanced power at high revs.
- Adapt or choose the right ***300V*** viscosity grade according to the viscosity grade recommended in your owner's manual or by your tuning service partner.
- To guarantee optimal engine performance, avoid mixing with other synthetic or mineral lubricants.
- Oil Change: Consult your tuning service partner for appropriate drain interval and adjust to your own use.

PROPERTIES

MOTUL ***300V*** POWER series:

Viscosity grade	SAE J 300	**0W-8**	**0W-16**	**0W-20**
Density at 20°C (68°F)	ASTM D1298	0.833	0.841	0.847
Viscosity at 40°C (104°F)	ASTM D445	24.1 mm²/s	32.9 mm²/s	39.9 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	5.1 mm²/s	6.9 mm²/s	7.8 mm²/s
HTHS viscosity at 150°C (302°F)	ASTM D4741	1.8 mPa.s	2.3 mPa.s	2.6 mPa.s
Viscosity index	ASTM D2270	155	177	171
Pour point	ASTM D97	-42°C / -44°F	-51°C / -60°F	-54°C / -65°F
Flash point	ASTM D92	224°C / 435°F	222°C / 432°F	226°C / 439°F

Viscosity grade	SAE J 300	**0W-30**	**5W-30**
Density at 20°C (68°F)	ASTM D1298	0.844	0.850
Viscosity at 40°C (104°F)	ASTM D445	55.4 mm²/s	64.2 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	10.9 mm²/s	11.1 mm²/s
HTHS viscosity at 150°C (302°F)	ASTM D4741	3.4 mPa.s	3.5 mPa.s
Viscosity index	ASTM D2270	192	165
Pour point	ASTM D97	-48°C / -54°F	-48°C / -54°F
Flash point	ASTM D92	242°C / 468°F	228°C / 442°F