

PRODUCT INFORMATION



Lubricants - Engine Oil - Passenger Car Motor Oils

Valvoline™ VR1 Racing™ 5W-50

Specially formulated engine oil with unique molecular protection for high performance engines under high shear, high temperature, and high speed (RPM) driving conditions.

Performance levels

ACEA A3/B4
API SL, SM
Ford WSS-M2C153-E
GM 6094M

Applications

Offers the ultimate in performance for both turbo and non-turbocharged petrol engines. Ideally suited for modern high performance engines such as Ford Zeta, Zetec and many more.

The winning racing drivers' choice. Offers extra reserve needed to resist extreme operating conditions during fast road, track and motorsport use. Proven protection in extreme conditions.

Not recommended for vehicles fitted with aftertreatment systems or catalytic converters.

Always consult with your engine builder or trusted mechanic for more vehicle or application specific advice.

Features & Benefits

Race proven performance

VR1 Racing is formulated for ultimate performance under extreme operating conditions. Contains special additives that ensure optimal power output and maximum wear resistance for both turbocharged and non turbo charged petrol engines.

Extreme wear protection

Strong oil film in combination with specialized additives provide high resistance against extreme pressure and high operating temperatures.

Performance at high rpm ranges

Enhanced anti-foaming formulation ensures superior protection at high engine rpm.

Higher viscosity

The higher viscosity grades of the VR1 Racing will ensure proper film thickness even in high heat applications.

Break down resistance

High thermal and oxidation stability resists oil breakdown.

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Keeping the world moving since 1866™

Serving more than 100 countries around the globe, Valvoline Global Operations is a leading marketer, distributor and producer of quality branded automotive and industrial products and services. Products include automotive lubricants, transmission fluids, gear oils, hydraulic lubricants, automotive chemicals, specialty products, greases, and cooling system products.

For more information on Valvoline products, programs and services please visit <https://www.valvolineglobal.com/en-eur/> or <https://pisheets.valvolineglobal.com>

Health & Safety

For more information about environment requirements, product safe handling, storage, and disposal, please refer to the product Safety Data Sheet (SDS) available at <https://sds.valvolineglobal.com>

Typical properties

VR1 Racing Motor Oil	
SAE Viscosity Grade	5W-50
Viscosity @ 100°C, mm²/s ASTM D445	19.3
Viscosity @ 40°C, mm²/s ASTM D445	122
Viscosity Index ASTM D2270	179
Viscosity @ -30°C, mPa.s ASTM D5293	< 6600
TBN, mg KOH/g ASTM D2896	11.8
Phosphorus, ppm ASTM D6443	1300
Zinc, ppm ASTM D6443	1500
Pour Point, °C ASTM D5949	-39
Density @ 15°C, g/cm³ ASTM D4052	0.854
Flash Point, COC, °C ASTM D92	> 200

*The data provided is for reference only and can be applied only for the specific production location.

**This information only applies to products manufactured in the following location(s):
Europe**

Effective date: 8/26/2026