

VALVOLINE™ VR-1 RACING MOTOR OIL

Valvoline VR-1 Racing Motor Oil is a family of race-proven lubricants formulated to provide high load carrying characteristics, minimum foaming and maximum resistance to thermal degradation. Exclusive chemistry reduces internal friction and enhances power output under extreme service conditions. **Valvoline VR-1 Racing Motor Oil** is recommended for engines burning gasoline and full or partial alcohol fuels in track and street service. **Valvoline VR-1 Racing Motor Oil** is for use in any car, light truck, van, or SUV where API "SN" is recommended (see proper viscosity grade below). Not recommended for extended use in vehicles with catalytic converters.

Valvoline VR-1 Racing Motor Oil is not recommended for use in wet clutches (use Valvoline 4-Stroke Motorcycle Oil).

The Valvoline VR-1 Racing Motor Oil Advantages

- The #1 selling Racing Oil of all time and race track proven.
- Protects against high-temperature deposits for a cleaner engine.
- ZDDP additive provides tough anti-wear protection.
- Enhanced with friction modifier to improve horsepower.
- Formulated with enhanced anti-foam system.

Approvals/Performance Levels	Viscosity Grade/Other	
API SN/SM/SL	---	20W-50
API SH*	---	20W-50
API SG*	10W-30	20W-50
API CD/CF*	10W-30	20W-50
Test	10W-30	20W-50
Vis @ 100°C (cSt)	11.50	20.5
Vis @ 40°C (cSt)	77.0	181.8
Viscosity Index	143	132
Spec Gravity @ 60°F	0.8722	0.888
Density (lbs/gal)	7.27	7.39
Total Base No.	8.5	8.5
Flash COC (°C)	212	248
Pour Point (°C)	-33	-24
CCS cP (°C)	6200 (-25°C)	8000 (-15°C)
MRV TP-1 cP (°C)	20,000 (-30°C)	27,000 (-20°C)
NOACK % off @ 250°C	<15	<15
Sulfated Ash	1	1
Zinc/Phosphorus	0.14/0.13	0.14/0.13
Calcium	0.210	0.210
Sodium	0.049	0.049

* Obsolete Category

This information only applies to products manufactured in the following location(s): USA, Canada

Effective Date:
06-12-2017

Replaces:
02-09-2015

Author's Initials:
MDW

Rev. Code
007

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Approvals/Performance Levels	Viscosity Grade/Other			
API SN	SAE 30	SAE 40	SAE 50	
API SM/SL	SAE 30	SAE 40	SAE 50	
API SH/CD/CF*	SAE 30	SAE 40	SAE 50	
Test	SAE 30	SAE 40	SAE 50	SAE 60
Vis @ 100°C (cSt)	11.5	14.5	20.0	24.0
Vis @ 40°C (cSt)	94.87	136.8	219.3	293.4
Viscosity Index	113	105	105	104
Spec Gravity @ 60°F	0.8816	0.8851	0.8901	0.8931
Density (lbs/gal)	7.35	7.38	7.42	7.45
Total Base No.	8.5	8.5	8.5	8.5
Flash COC (°C)	212	248	254	254
Pour Point (°C)	-30	-27	-18	-18
NOACK % off @ 250°C	<15	<15	<15	<15
Sulfated Ash	1	1	1	1
Zinc/Phosphorus	0.14/0.13	0.14/0.13	0.14/0.13	0.14/0.13
Calcium	0.210	0.210	0.210	0.210
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