

PennGrade 1 V-Twin 4-Stroke Motorcycle Oil SAE 20W-50



Product Description

PENNGRADE 1® V2 4-Stroke High Performance SAE 20W-50 Motorcycle Oil is formulated with mineral based Pennsylvania Grade base oils and superior additive chemistry specifically designed with V twin domestic and imported motorcycle engine technology/lubrication needs in mind. It provides increased levels of 'zinc' (zinc dialkyldithiophosphate) for exceptional anti-wear/anti-scuffing protection. Detergents, dispersants and anti-oxidants offer protection from thermal and/or oxidative oil breakdown that can lead to varnish and deposit formation. Anti-foam agents reduce oil foaming and air entrainment under high-output, high revving conditions.

PENNGRADE 1® V2 4-Stroke High Performance SAE 20W-50 Motorcycle Oil meets JASO MA frictional performance requirements for wet clutches and is suitable for use in applications calling for one lubricant for the engine, transmission/wet clutch and primary chain systems (if applicable).

Performance Advantages

- Pennsylvania grade base oils provide exceptional film strength.
- Excellent High Temperature protection for air and water cooled 4-cycle engines.
Resists thermal and/or oxidative breakdown.
- Superior high temperature/high shear viscosity.
- Increased levels of 'zinc' (zinc dialkyldithiophosphate) offer outstanding anti-wear/anti-scuffing protection.
- Meets JASO MA frictional performance requirements for use in wet clutches.

Typical Applications

PENNGRADE 1® V2 4-Stroke High Performance SAE 20W-50 Motorcycle Oil is a good multi-viscosity choice for use in V twin engines such as those commonly found in Harley-Davidson® motorcycles where an SAE 20W-50, API Service SJ, CF or CH-4 quality motor oil is specified.

Also suitable for use in S&S®, RevTech® and other V twin engines as well as Triumph®, Ducati®, BMW®, Victory® and other 4-stroke domestic and imported motorcycles where an SAE 20W-50 viscosity, API SJ, SH, SG, CH-4 or CF quality oil is specified. Always consult your owner's manual for proper oil viscosity and quality selection.



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Typical Properties

Properties	Test Method	20W-50
API Service	SAE J183	CH-4, CF SJ, SH, SG
API Gravity, 60°F	ASTM D-1298A	28.6
Density, lbs/gal (g/L)	Calculated	7.375 (884)
Viscosity, cSt @ 40°C	ASTM D-445	167
Viscosity, cSt @ 100°C	ASTM D-445	19.35
Viscosity, SUS @ 100°F	ASTM D-2161	866
Viscosity, SUS @ 210°F	ASTM D-2161	98.1
Viscosity Index	ASTM D-2270	130
Color	ASTM D-1500	Green
Pour Point, °C (°F)	ASTM D-5949	-33 [-27.4]
Flash Point, °F (°C)	ASTM D-92	425 [218]
HTHS, mPa*s	ASTM D-5481	5.7
CCS, cP	ASTM D-5293	6,750 @ [-15°C]
MRV, cP	ASTM D-4598	40,000 @ [-20°C]
TBN, Typical	ASTM D-974	9.1
KF Moisture, ppm	ASTM D-6304	400 (max)
Sulfated Ash, Typical	ASTM D-874	1.2

Product Code	55 Gal Drum	BPL601-7157
	12/1 Qt, Net 3 Gal	BPL009-7157

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