



102 Barton Street, St. Louis, Missouri 63104 In-State (314) 865-4100/Out of State 800-325-9962/Fax (314) 865-4107 http://www.schaefferoil.com

707 EXTREME V-TWIN SYNTHETIC PLUS RACING OIL SAE 20W-50

Extreme V-Twin Synthetic Plus Racing Oil is highly advanced, premium quality, multi-grade parasynthetic, high zinc containing,4 stroke racing engine oil that is formulated to meet the lubrication demands of V-Twin engines.

Extreme V-Twin Synthetic Plus Racing Oil is blended from the finest quality, severely hydrotreated, polyalphaolefin (PAO) synthetic base fluids and severely hydroconverted and hydrocracked Group II+ base oils available. This unique combination provides Extreme V-Twin Synthetic Plus Racing Oil with the following advantages:

- 1. Superior Cold Weather Startability and Operating Characteristics Resulting in less friction and lubricant drag in the engine and instant lubrication during cold weather start up.
- 2. Superior Oxidative Stability and Excellent Resistance to Thermal Degradation.
- 3. Excellent Low Volatility Characteristics Resulting in reduced oil consumption and increased protection against the formation of deposits
- 4. Lower Pour Point and Borderline Pumping Temperature.
- **5. High Viscosity Index.** A minimum change in viscosity, which provides adequate viscosity for the proper lubrication of the engine, regardless of temperature.
- **6. Excellent Film Strength -** Provides increased protection against wear.
- 7. Compatibility with All Types of Seals
- 8. Extended Oil Drain Capability and Intervals

Blended into the para-synthetic base stocks is a highly advanced, robust, proprietary performance formula additive system and a highly shear stable viscosity index improver. This combination provides Extreme V-Twin Synthetic Plus Racing Oil with the following performance benefits:

- 1. Outstanding protection against the formation of high temperature deposits
- 2. High detergency and dispersancy to suppress the formation of deposits, sludge and varnish.
- 3. Active cleaning agents for increased and enhanced engine cleanliness and minimized coking deposits on critical engine parts
- 4. Exceptional protection against thermal breakdown during high engine oil operating temperatures
- 5. Excellent resistance to oxidation
- 6. Excellent shear stability to resist viscosity shear down and breakdown in high performance engines and transmissions
- 7. Excellent resistance to thinning at high temperatures
- 8. Excellent high temperature/high shear performance to provide excellent oil film thickness and engine protection at high operating temperatures and shear rates, while minimizing lubricant frictional resistance
- 9. Extra zinc anti-wear additives to protect the engine from excessive wear

- 10. A patented, novel, zinc anti-wear additive system that minimizes volatility and chemical breakdown of the zinc anti-wear additive in order to provide maximum and long lasting anti-wear performance and robustness needed to protect the engine and transmission
- 11. Enhanced lubrication to maintain maximum power and acceleration
- 12. Excellent low temperature flow characteristics and pumpability to provide rapid circulation and minimize wear during start-up
- 13. A substantial reduction in ring and cylinder wear
- 14. Reduced bearing wear and increased bearing life
- 15. Excellent rust and bearing corrosion protection
- 16. Superior valve train-wear protection
- 17. Increased oil seal compatibility
- 18. Excellent anti-foaming properties
- 19. Excellent protection of exhaust and catalyst systems
- 20. Reduced operating temperatures
- 21. Increased fuel economy benefits and retention for improved gas mileage during the oil's entire oil drain interval
- 22. Enhanced protection when using ethanol blended fuels
- 23. Reduced oil ageing allowing for increased drain intervals
- 24. Increased engine/transmission life

Further blended into these synthetic blend base fluids, the highly advanced proprietary performance additive package and shear stability viscosity index improver are two proven frictional modifiers, Micron Moly®, a liquid soluble type of Moly and Schaeffer Mfg's own proprietary additive Penetro®. These two proven frictional modifiers once plated, form a long lasting slippery tenacious lubricant film, which prevents the metal surfaces from coming into contact with each other. By preventing metal-to-metal contact, damaging frictional wear is prevented from occurring. This prevention of metal-to-metal contact and reduction in wear results

- * A low coefficient of friction
- * Significantly less bearing, ring, piston, cylinder, and valve-train wear
- * Increased engine efficiency, durability and life
- * Less down-time which reduces maintenance costs
- * Increased fuel economy

Extreme V-Twin Synthetic Plus Racing Oil is not recommended for use in those motorcycle and ATV applications that specify engine oil that meets JASO MA or MB. Use of Extreme V-Twin Synthetic Plus Racing Oil in applications that specify JASO MA or MB oil can cause slippage and improper engagement of the clutch mechanisms.

Extreme V-Twin Synthetic Plus Racing Oil is also not recommended for use in 4-cycle marine engines that specify the use of a NMMA FC or FC-W four cycle engine oil.

Extreme V-Twin Synthetic Plus Racing Oil meets and exceeds the following specifications and manufacturers' requirements: API Service Classification SM, Harley-Davidson® V-Twin specifications and JASO (T903) MA-2 specifications

TYPICAL PROPERTIES

SAE Grade	20W-50
Viscosity @ 40°C, cSt (ASTM D-445)	129.5-166.5
Viscosity @ 100°C, cSt (ASTM D-445)	16.5-20.00
Viscosity Index (ASTM D-2270)	140
High Temperature/High Shear Viscosity 302°F/150°C, cP	
(ASTM D-4683)	5.31
Cold Cranking Viscosity (ASTM D-5293)	
@-15°C, cP	3,506
Mini Rotary Viscosity TP-1 @ -20°, cP (ASTM D-4683)	23,400
Scanning Brookfield Gelation Index @ -11°F/-24°C	3.9
Flash Point °F/°C (ASTM D-92)	400.2°/204.56°
Fire Point °F/°C (ASTM D-92)	505°/262.78°
Stable Pour Point °F/°C (FTM 7916 Method 203)	<-41°/<-42°
Total Base Number (ASTM D-2896)	7 to 7.5
Sulfated Ash Content % wt (ASTM D-874)	0.9
Orban Shear Stability (ASTM D-7109)	
% Loss @ 30 Passes	5
% Loss @ 90 Passes	10.3
Copper Strip Corrosion Test (ASTM D-130)	1a
NOACK Volatility %Evaporation Loss (ASTM D-5800)	7.5%
Foam Test (ASTM D-892)	
Sequence I	0/0
Sequence II	0/0
Sequence III	0/0
Sequence IV	0/0
High Temperature Foam Test (ASTM D6082 Option A) MHT-4 TEOST (ASTM 6335)	0/0
Deposit Weight, mg	23.8
Engine Rusting Ball and Rust Test (ASTM D-6557)	
Average Gray Value	133
Zinc Content, ppm	1600-2000
Phosphorous, ppm	1300-1900