



# TECHNICAL DATA

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## 240 EXTREME PERFORMANCE V-TWIN PRIMARY LUBE

Extreme Performance V-Twin Primary Lube is a specially formulated lubricant that is designed for use in the primary chaincase of all Harley Davidson® Big Twin Models and in the wet and primary/transmission common sumps found in Harley Davidson® Sportster® models that have wet clutches sharing the same sump as the transmission gears. Extreme Performance V-Twin Primary Lube penetrates into the chain rollers to loosen stiff links and extend chain sprocket life, while delivering excellent clutch performance and providing maximum wear protection to the primary chain and cog set, the transmission gears and primary drive chain. . Extreme Performance V-Twin Primary Lube can be used in chaincases equipped with original, modified or aftermarket high performance clutch assemblies. **Extreme Performance V-Twin Primary Lube is not recommended combined engine/transmission sumps.**

Extreme Performance V-Twin Primary Lube is blended from the finest severely hydro-treated polyalphaolefin synthetic base fluids and severely solvent refined, severely hydrofinished 100% pure paraffin base oils available. This unique combination provides Extreme Performance V-Twin Primary Lube with superior oxidation, excellent film strength, excellent thermal and oxidation stability, excellent resistance to thermal degradation and lower volatility characteristics.

Blended into these para-synthetic base fluids is a specialized high performance additive system that provides excellent wear protection and material compatibility while maximizing equipment life. This specialized high performance additive system provides the Extreme Performance V-Twin Primary Lube with the following features and benefits:

1. Balanced and controlled static and dynamic friction performance to provide optimized clutch friction retention and slippage control
2. Smooth and positive clutch action that results in less slippage, longer chain and sprocket life and seamless gear shifting in all types of service
3. Elimination of the need to constantly adjust equipment in order to maintain a proper clutch setting
4. Efficient clutch operation and optimum torque transfer
5. Improved clutch performance, shift quality and speed
6. Prevention of clutch chatter
7. Excellent wear protection for gears, bearings, clutch materials, chains and sprockets
8. Excellent protection against gear wear and pitting
9. Excellent compatibility with all types of seal and elastomeric materials commonly used
10. Excellent stay-in-grade performance and shear stability in order to provide long term anti-wear protection and sustained applied pressure
11. Excellent oxidative and thermal stability in order to prevent and eliminate the formation of sludge and varnish that can damage seals and elastomeric clutch materials
12. Excellent protection against foaming even with water contamination. This ensures that no air can become entrained into the fluid that could lead to metal-to-metal contact and wear
13. A reduction in operating temperatures
14. Superior protection against corrosion and rusting
15. Maximum transmission and primary drive chain reliability
16. Longer transmission and primary drive chain life and reduced risk of premature component failure

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Further blended into Extreme Performance V-Twin Primary Lube is Micron Moly®. Micron Moly® is a liquid soluble type of moly that plates itself to the metal surfaces of the various components of the primary chaincase and transmission. thus forming a solid lubricant film that is able to withstand pressures up to 500,000 lbs. per square inch. This translates into better wear protection for the metallic components of the primary chaincase the transmission resulting in extending operating life and providing an extra margin of safety for service.

### Typical Properties

Specific Gravity @ 60°F (15°C)	0.8909
Viscosity, cSt @ 40°C ASTM D-445	82.89 – 106.31
Viscosity, cSt @ 100°C ASTM D-445	10.5 – 12.5
Viscosity Index ASTM D-2270	110
High Temperature High Shear Viscosity @ 302°F (150°C) ASTM D-4683	4.0
Flash Point °F (°C) ASTM D-92	470° (243°)
Fire Point °F (°C) ASTM D-92	500° (260°)
Pour Point °F (°C) ASTM D-97	-20° (-29°)
Four Ball EP Test ASTM D-2783 Weld Pont, kg	250
Four Ball Wear Test ASTM D-4172 Scar diameter, mm	0.4
Foam Test ASTM D-892 Sequence I	0/0
Sequence II	0/0
Sequence III	0/0
Foam Test ASTM D-892 Sequence I with 0.1% water	0/0
Sequence II with 0.1% water	0/0
Sequence III with 0.1% water	0/0
FZG Gear Wear Test 100 rpm, 121°C, 20 hours , Load Stage 10 ASTM D-4998 Mgs.of weight loss	50
Copper Strip Corrosion Test ASTM D-130	1a