



TECHNICAL DATA

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>

116BC BAR & CHAIN LUBE

Bar & Chain Lube is a premium quality wide temperature range, para synthetic, tacky, heavy-duty, anti-wear oil that is designed for use in the lubrication of chain saw bar and chains, slides and sawguides.

Bar & Chain Lube is blended from a unique combination of the finest quality severely hydrotreated polyalphaolefin (PAO) synthetic base fluids and severely hydrotreated and hydrocracked Group II Plus available. Blended into the Bar & Chain Lube's base stock combination is a balanced proprietary additive system that provides the following performance benefits:

1. Excellent resistance to sling off and splatter
2. Clings tenaciously to blade, chains and sawguides in order to protect them against damaging metal-to-metal contact
3. Excellent anti-wear and load carrying capacity that reduces metal-to metal contact wear to critical areas in order to optimize the life of the chain drive sprocket, the bar guide and the moving chain
4. Low frictional properties to eliminate stick-slip and chatter of the bar and chain
5. Rapid and maximum penetration into the pins and bushings of the chain reducing wear and chain stretch
6. Rapid penetration into the pins and bushings and the pores of the metal surfaces of the chains in order to help free frozen chains and prevent new chains from freezing
7. Formation of a protective layer that rejects abrasive particles such dirt, sand and wood particles
8. Tight control of viscosity that allows for better calibration or oiling rates
9. Detergency to reduce and prevent the build-up of pitch, wood resin and sawdust on the chain and drive sprockets and the blade, there-by reducing maintenance and down-time
10. Excellent protection against the build-up of deposits on the chain drive sprockets
11. Excellent rust and corrosion protection to protect blade surfaces from rust that otherwise would stain lumber surfaces.
12. Excellent cold weather pumpability and flowability for better cold temperature protection and lubrication

Continued on Next Page

TD-116BC (01/2013)

13. The ability to use one grade for year-round use, thus eliminating the need to change viscosity grade with temperature changes
14. Superior low volatility characteristics to reduce lubricant consumption
15. Excellent anti-foaming properties
16. Cooler chain operating temperatures and a reduction in heat build-up

Further blended into these synthetic blend base fluids, and the balanced proprietary additive system proprietary 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 in:

- * A low coefficient of friction.
- * Significantly less wear.
- * Increased chain and bar life
- * Increased equipment durability
- * Less downtime
- * Reduced maintenance

Typical Properties

Specific Gravity @ 60°F/15°C	0.872 – 0.88
Viscosity @ 40°C cSt (ASTM D-445)	102 – 108
Viscosity @ 100°C cSt (ASTM D-445)	14.00-16.00
Viscosity Index (ASTM D-2270)	154
Flash Point °F/°C (ASTM D-92)	440°/221°
Fire Point °F/°C (ASTM D-92)	490°/254°
Pour Point °F/°C (ASTM D-97/D-5950)	-38°/ < -39°
Four Ball E.P. Test ASTM D-2883	
Weld Point, kgs-f	315
Four Ball Wear Test ASTM D-4172	
Scar diameter	0.4