



# DIAMOND PRODUCTS

## LARGE SAW GENERAL MAINTENANCE INSTRUCTIONS

Part#: 1800909

# MAINTENANCE INSTRUCTIONS

- 1. Lubricate blade shaft bearings daily!** Lubricate only while shaft is rotating at a slow speed. Lubricate when sawing is finished for the day and before shutting off engine. Note: When cutting dry, grease blade shaft bearings two or three times daily. Use only a premium, lithium-based grease, conforming to **NLGI** No. 2 consistency. All other fittings should be greased after a maximum of every 40 hours of operation.
- 2. Check engine oil daily.** Keep oil clean and at proper level. Since the engine often operates at an angle, check the oil level (with engine in horizontal position) frequently to ensure that the oil level never falls below the lower mark on the dipstick. Follow engine manufacturer's recommendation on changing oil.
- 3. Clean air filter** outer element when the restriction indicator red signal appears. Do not clean inner safety element! Replace inner element yearly, or if it becomes damaged.
- 4. Check transmission oil daily.** Check oil in transparent reservoir. When adding oil use S.A.E. 30W30 API classification SE, CC, CD or better. Do not use multiple viscosity oils. (For Eaton transmission, Dexron II automatic transmission fluid should be visible in clear tube. If low, add fluid to hydraulic lifting pump.)
- 5. Hydraulic lifting pump.** Check oil level periodically. Add Dexron II transmission fluid to bring level to full. Do not overfill, or fluid will be expelled through fill filter cap when lowering saw. System capacity is 1.25 quarts.
- 6. Hydrostatic transmission cooling fins:** Do not allow the fan or cooling fins of the transmission to become covered, or clogged with dust or dirt. This will not allow proper cooling of the transmission oil.
- 7. Loose chain drive:** The drive chain will stretch during normal operation. Loosening the four transmission attaching bolts and moving the transmission up in the slots in the transmission platform can tighten it. Do not overtighten chain, but allow a slight amount of slack. Lubricate chain with oil to reduce chain wear.
- 8. Tighten fasteners regularly.** Nuts and bolts may become loose particularly after the first few hours of operation.
- 9. Torque shaft PTO & V-belts:** Lubricate the splined shaft 10 to 20 every hours of use. **Do not over grease.** Maintain proper belt tension to preclude any possible damage. To obtain accurate V-belt setting, a V-belt tension tester should be used. Check the setting on a single belt of a matched set of V-belts. Apply load at the center of the belt span. Deflection should be 5/16" with a 5 to 6 lb. Load. Continue to check the belt tension on a regular basis, and re-tension as necessary. To re-tension the belts, turn off the engine. Loosen the four bolts holding the engine base. Turn the vertical tensioning belts on the front of the engine base until the belts are tight. Re-tighten the four belts on the engine base.
- 10. Engine care:** See engine manual. Clean dust and dirt from cooling fans daily, or as required, to provide adequate cooling.