

TIPS FOR TUGGERS

- 1. Grease all your through hulls before launching. Use a good heavy spray grease from bottom of boat, then go inside and work all sea cocks. White spray grease available at local hardware stores.**
- 2. Have boatyard check strut bearings and rudder post before launching.**
- 3. Check thruster blades for any damage. They should spin freely by hand out of water.**
- 4. Change generator impeller now.**
- 5. Main engine every other year.**
- 6. Change all zincs, including thruster and engine.**
- 7. Bottom paint should be shaken well and warmed before applying. Spreads much easier.**
- 8. Clean interior teak of any grease & dirt well with denatured alcohol, then apply several coats of Formby's Lemon Oil.**
- 9. Teak or Sapele steps should be cleaned very well and coated with several coats of Miniwax clear Duraseal. They will look like new.**
- 10. Clean all bilges, lockers, hatches with X14, best product to kill mold and mildew.**
- 11. Hand large bags of DampRid (14oz) in all lockers. Traps moisture and eliminates odors.**
- 12. Clean all lines & fenders with soap, water and vinegar. Vinegar will remove all salt and soften lines.**
- 13. Change batteries in smoke and CO2 detectors, most take 9V batteries.**

14. **Plug in boat overnight and charge all batteries. Hopefully 24 hours.**
15. **Clean and wax hull before launching. Several coats of Pure Wax after cleaning are important. A cleaner wax is only the first step.**
16. **PSS Dripless shaft seal needs rebuild kit every 6 years. But yearly checks on your SS hose clamps. Boat can sink quickly if this unit fails. Use a mirror to see underside of clamps.**
17. **AC SS hose clamps need to be checked yearly. They can rust out.**
18. **Coolant needs to be changed usually every 5 years. Test condition each year with test strips. Yanmar engines recommend every 2 years. CAUTION: Do not mix antifreeze types. Nordic generally has used the poly type on all Cummins engines.**
19. **Airsept engine filter needs to be cleaned and serviced every 2 years, more if cats and dogs on boat or a dirty engine room. Replace unit every 10 years.**
20. **Rebed all stachions on upper deck and ladder every 5 years.**
21. **Cummins engine require a 1000 hr and 3000 hr service.**
22. **Whink is a great rust remover. Available in hardware store.**
23. **Portable air horn is great for cleaning vent lines, clogged strainers.**
24. **DAP: sometimes you just need to carry a large conch shell or some other object like that on your boat. Left to its own devices, it will surely fly all over the boat creating mayhem. Get and press item onto the flat surface where you want it. Chances are it will stay put. Experiment and watch it at the beginning until you are confident that it will stay put.**