

WESTERLY - MAINTENANCE LOG

March 5, 2017

CONTENTS

VOYAGE REPAIRS

OPERATING HOUR MAINTENANCE SCHEDULE

- MAIN ENGINE, DRIVE TRAIN, and FW, FO and STEERING SYSTEMS
 - ADDITIONS and ADJUSTMENTS
- GENERATOR
 - ADDITIONS and ADJUSTMENTS

CALENDAR MAINTENANCE SCHEDULE

NOTE: Voyage Repairs lists non-scheduled tasks. There are primarily two different categories of scheduled maintenance tasks: Those based on equipment operating hours, and those based on calendar time. There are also additions and adjustments for the ME, Gear, Drivetrain and Generator

VOYAGE REPAIRS

- 1) Replace center wiper motor/arm/blade
 - 2) Reset HW heater
 - 3) Replace drive plate
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OPERATING HOUR MAINTENANCE SCHEDULE

MAIN ENGINE, DRIVE TRAIN AND FW, FO AND STEERING SYSTEMS

NOTE: Correct ME engine hours equals present meter reading plus 3909.2 hrs (original meter failed 1994 at 928.0 hrs, second meter failed 2004 at 2981.2 hrs).

3775 hrs

Operating hour inspection (25 hrs): Check bilges in all areas, check/top-off oil/coolant fluid levels, check/tighten HOALT belts/connections, check/tighten hoses/clamps, check/clean sea strainer, check/empty crankcase breather container, check air filter, check/tighten HW tank connections, check/replace primary fuel filters, check shaft brush, check dripless shaft seal, check FO tank/hose connections, check rudder, autopilot and manual steering.

1225.2-1250.4-1276.2-1357.1-1381.5-1400.0-1440.6-1476.0-1511.2-1526.2-1549.7-1580.8-1597.8-1636.7-1649.4-1699.9-1724.8-1750.2-1779.2-1802.4-1829.2-1852.1-1874.0-1898.6-1925.6-1952.1-2001.2-2028.9-2052.4-2075.2-2098.8-2126.7-2149.4-2178.6-2201.4-2227.2-2250.5-2272.5-2300.2-2324.8-2352.0-2377.0-2398.6-2427.8-

2451.9-2475.0-2502.6-2526.7-2551.2-2576.8-2601.2-2627.2-2650.4-2671.0-2696.4-2726.8-2754.2-2778.8-2801.3-2825.9-2849.5-2875.6-2899.8-2924.8-2947.7-2975.8-0024.8-0047-0075.4-102.5-125.8-153.9-172.1-200.8-221.0-254.7-278.6-296.4-327.6-347.7-377.8-395.9-425.7-447.5-470.6-498.6-520.6-547.3-575.0-598.7-624.3-651.4-672.1-699.7-725.7-752.2-776.1-803.1-823.3-851.8-877.3-899.5-925.8-953.3-974.4-995.6-1025.6-1054.1-1073.4-1102.0-1125.3-1160.2-1174.4-1199.1-1224.4-1247.0-1275.6-1301.1-1349.2-1371.4-1401.8-1426.5-1451.2-1471.2-1502.3-1521.5-1549.1-1574.2-1599.9-1631.7-1651.6-1673.0-1702.0-1727.2-1748.4-1775.4-1799.2-1822.0-1849.9-1874.2-1898.3-1926.3-1947.3-1978.0-2000.9-2024.8-2049.0-2074.9-2099.2-2128.3-2151.7-2179.1-2198.6-2236.8-2251.4-2274.1-2298.5-2322.6-2351.0-2374.7-2402.3-2428.7-2450.4-2473.3-2501.2-2526.5-2553.8-2574.7-2599.7-2625.2-2652.7-2673.5-2701.5-2724.8-2754.8-2779.9-2802.9-2823.3-2851.2-2876.7-2901.4-2924.6-2949.6-2976.1-3001.9-3024.2-3050.7-3076.6-3103.6-3123.5-3150.8-3179.4-3196.9-3226.7-3255.5-3274.9-3301.6-3326.3-3345.5-3374.1-3396.7-3425.1-3452.4-3475.6-3498.3-3524.4-3551.5-3573.6-3598.2-3624.8-3649.6-3671.7-3698.0-3724.8-3751.2-

3800 hrs

Check/tighten intermediate shaft bearing mounting bolts, and grease bearing (red lithium) (75 hrs): *[DO NOT OVERGREASE]* 6/98-01/99-7/99-4/00-10/00-2/01-6/01(1549.7)-7/01(1699.9)-9/01(1852.2)-5/02(2001.2)-7/02(2089.1)-8/02(2203.2)-12/02(2300.2)-6/03(2398.6)-7/27(2502.6)-8/03(2601.2)-3/04(2694.4)-7/04(2784.5)-8/04(2861.4)-9/04(2947.7)-4/06(153.9)-8/06(215.0)-5/07(316.2)-6/07(377.8)-7/07(470.6)-7/29(575.0)-8/22(679.3)-4/10(752.6)-7/3(823.3)-9/09(943.4)-5/10(1058.5)-8/10(1160.2)-5/11(1247.0)-8/11(1349.2)-9/11(1448.0)-5/12(1532.5)-6/12(1727.2)-7/12(1862.9)-8/12(1938.3)-2/13(2052.2)-6/13(2142.0)-8/13(2274.1)-2/14(2352.8)-5/14(2428.7)-5/28(2501.2)-6/16(2574.7)-7/7(2652.7)-7/14(2701.5)-8/14(2779.9)-8/14(2848.5)-9/14(2924.6)-7/15(2996.4)-8/15(3085.1)-9/15(3150.8)-5/16(3217.7)-5/16(3294.4)-6/16(3345.5)-6/16(3425.1)-7/16(3498.3)-7/16(3573.6)-8/16(3649.6)-8/16(3724.8)

3850 hrs

Empty crankcase breather container (125 hrs): 8/00(1262.5)-10/00(1396.9)-6/01(1549.7)-7/01(1611.1)-9/01(1874.0)-4/02(1968.4)-7/12(2089.1)-10/24(2271.6)-7/2(2427.8)-8/12(2560.4)-12/10(2671.0)-6/04(2758.2)-8/04(2861.4)-12/04(30.8)-4/06(153.9)-8/06(245.6)-6/07(339.9)-7/05(470.6)-7/24(559.8)-11/07(718.7)-3/08(752.2)-7/08(823.3)-9/09(943.4)-4/10(1029.0)-8/10(1160.2)-8/11(1381.2)-1/12(1521.5)-5/12(1631.7)-7/12(1861.9)-9/12(2049.0)-8/13(2238.0)-10/13(2322.8)-5/14(2450.4)-6/14(2574.7)-7/14(2701.5)-8/14(2823.3)-3/15(2949.6)-8/15(3108.4)-5/16(3217.7)-6/16(3345.5)-7/16(3375.6)-8/16(3598.2)-8/16(3724.8)

3850 hrs

Check/tighten shaft coupling bolts (125 hrs): 4/12(1529.6)-9/13(2321.8) found loose-1/14(2343.3)tight-5/14(2450.4)tight-5/14(2501.2)tight-6/14(2574.7)tight-7/14(2701.5)tight-8/14(2823.3)-3/15(2949.6)tight-8/15(3085.1)tight-12/15(3158.1)tight-5/16(3196.9)tight-6/16(3345.5)tight-7/16(3475.6)tight-8/16(3598.2)tight-8/16(3724.8)tight

3850 hrs

Replace/clean ME K&N air filter (125 hrs): 10/00(1396.1)new K&N RU2820 filter-2/01(1457.2)cleaned and put in storage while using last Baldwin filter-10/01(1883.0)remove Baldwin 2815 and put on K&N-4/02(1967.9)new-9/02(2250.5)new-7/03(2451.9)-9/03(2654.0)-6/04(2758.2)-8/04(2861.4)-10/04(2969.5)-12/04(30.8)-8/05(125.8)-9/06(259.2)-6/07(377.8)-7/07(470.6)-7/29(575.0)-8/22(679.3)-11/07(718.7)-7/3(823.3)-9/09(943.4)-5/10(1058.5)-8/10(1160.2)-5/11(1247.0)-8/11(1349.2)-9/11(1448.0)-5/12(1549.1)-6/12(1775.4)-8/12(1938.3)-4/13(2066.3)new-7/13(2191.0)new-9/13(2321.2)new-5/16(2450.4)-6/14(2574.7)-7/14(2701.5)-8/14(2823.3)-3/15(2949.6)-8/15(3085.1)-5/16(3217.7)-6/16(3345.5)-7/16(3475.6)-

8/16(3598.2)-8/16(3724.8)

3850 hrs

Change lube oil and primary oil filter, take Level II oil sample (250 hrs): (17 qts/4.25 gal Delo 400 15W-40, LO filter Fleetguard LF3894 or Baldwin BT339) *[Pre-fill main LO filter. Oil level ends up at the L mark, add a quart when it gets down to the letter L. Take LO sample 90 seconds after starting to pump oil.]* (350.0)-8/98(565.9)-1/99(748.6)-9/99(1031.0)-10/00(1400.0)-7/01(1699.9)-2/02(1967.9)-10/02(2271.6)-8/03(2560.4)-8/04(2861.4)-1/05(0075.4)-10/06(278.6)-7/07(470.6)-11/07(718.7)-9/09(943.4)-8/10(1160.2)-8/11(1381.2)-5/12(1631.7)-7/12(1861.9)-9/12(2049.0)-9/13(2321.5)-6/14(2574.7)-8/14(2823.3)-8/15(3108.4)-6/16(3345.5)-8/16(3598.2)

3850 hrs

Change lube oil by-pass filter (250 hrs): (Oil Guard bypass filter EPS-20/Racor LFS801BPE) *[Pre-filling filter after filter change not needed]* 7/99(1002.0)-9/99(1031.0)-7/00(1212.6)-10/00(1400.0)-6/01(1549.7)-7/01(1699.9)-9/01(1852.2)-2/02(1967.9)-3/03(2324.8)-7/03(2427.8)-8/03(2560.4)-6/04(2726.8)-8/04(2861.4)-1/05(0075.4)-10/06(278.6)-7/07(470.6)-11/07(718.7)-9/09(943.4)-8/10(1160.2)-8/11(1381.2)-5/12(1631.7)-7/12(1861.9)-9/12(2049.0)-9/13(2321.5)-6/14(2574.7)-8/14(2823.3)-8/15(3108.4)-6/16(3345.5)-8/16(3598.2)

3850 hrs

Change ME bulk fuel oil filter (500 hours or 2 years or when needed): (Racor R60P/T - 30 micron element) 2/05(071.1)-7/06(163.6)-4/08(752.2)-7/09(893.4)-5/11(1247.0)-5/12(1649.3)-6/13(2112.0)-6/14(2574.7)R45Pgo250hrs/1yr-8/14(2823.3)R60-6/16(3345.5)

3960 hrs

Inspect/change ME SW pump impeller (inspect at 600 hrs, change at 800 hrs): 3/99(750.0)new-1/00(1095.2)ok-2/01(1461.0)new-2/02(1969.4)ok-3/03(2325.0)new-3/04(2694.4)ok-4/05(75.3)ok-4/06(153.9)new-5/07(296.4)ok-7/09(889.1)new-10/10(1199.1)ok-12/11(1521.5)new-5/13(2069.9)ok-1/14(2343.3)new-3/15(2949.6)ok-1/16(3157.7)new-2/17(3771.2)ok

5250 hrs

Adjust valves (1500 hrs): (.10 intake, .20 exhaust) 1995(122.0 est)[1050 hrs service]-10/00(1400.0)[1278 hrs service]-3/05(2981.2)[1581.2 hrs service]-5/10(1058.5)[1058.5 hrs service]-7/14(2657.8)[1599.3 hrs service]-1/17(3768.5)[1110.7 hrs service]

6025 hrs

Remove/service Borg Warner transmission (4500 hrs): 4/12(1529.6)new

6025 hrs

Change ME drive plate (2250 hrs): 4/12(1529.6)new

6750 hrs

Change/rebuild injectors (3000 hrs): (9 or 7 mm) 6/98(463.8)[1391.8 hrs service]-5/10(1058.5)[3576 hrs service]-1/17(3768.5)[2710 hrs service]

ADDITIONS and ADJUSTMENTS: Main Engine, Gear, Drivetrain and Steering

lube oil added 8/16(3598.2)new, 8/16(3718.7)added 1qt

gear oil added 2/16(3160.8)new

FW coolant added 11/16(3754.1)new ethylene glycol yellow/green

HO alternator belts replaced/adjusted 4/00(1095.5)new-10/00(1400.0)adj-5/02/01(1467.1)adj-

8/01(1844.4)new non-top cog-10/01(1874.1)new top cog-11/01(1906.3)adj-2/03(2324.5)adj-

7/04(2825.9)adj-10/04(2968.2)adj-12/04(30.8)adj after replacing HO Alt-4/06(153.9)adj after cleaning

alt-5/07(295.6)adj-8/07(684.8)adj after changing out HOALT [removed one flat washer from alt

base]-7/09(889.1)adj after replacing ME serpentine belt-7/10(1131.2)adj after cleaning alt-10/11(1502.3)adj after cleaning alt-01/12(1521.5)adj after installing HOALT- 5/12(1536.1)new top cog-5/12(1573.1)adj-9/12(2049.0)adj-7/13(2191.0)adj after cleaning alt-6/14(2574.8)adj after installing HOALT-7/15(3006.0)adj after tightening mount)-12/15(3157.8)adj after installing re-welded mount-8/16(3598.2)adj after replacing mounting bolt-10/16(3745.8)adj-1/17(3768.5)adj after installing HOALT

serpentine belt 6/98(461.5)new-7/09(889.1)new(old one went 3390 hrs and was still serviceable)-1/17(3768.5)new(old one had 2880 hrs and was still serviceable)

sea strainer cleaned 10/13(1054.0)-2/15(1095.5)-6/13(1160.6)-6/29(1172.8)-7/16(1235.6)-8/01(1262.5)-8/22(1357.1)-9/14(1386.7))-6/11(1506.3)-6/19(1536.8)-6/22(1555.0)-6/27(1580.8)-7/15(1649.7)-7/22(1699.9)-8/5(1779.3)-8/24(1834.2)-9/27(1874.0)-11/4(1904.3)-4/02(1968.4)-6/02(2028.9)-7/11(2089.1)-7/27(2136.6)-8/9(2179.6)-3/3(2324.8)-6/3(2377.5)-6/16(2408.9)-7/5(2438.7)-7/27(2501.6)-8/13(2560.4)-9/8(2639.1)-2/4(2694.8)-7/8(2784.5)-7/28(2825.9)-8/5(2861.4)-8/22(2894.5)-10/04(2965.4)-7/05(107.5)-4/06(153.9)-8/12(206.0)-5/9(296.4)-6/11(347.7)-7/2(469.5)-7/24(559.8)-8/5(624.3)-8/19(839.9)-8/27(925.8)-10/21(972.5)-5/26(1058.5)-8/18(1166.0)-7/6(1184.2)-9/10(1448.0)-5/12(1643.9)-7/12(1861.9)-8/12(2022.1)-9/12(2049.0)-5/13(2095.4)-9/13(2298.5)-5/14(2402.3)-9/14(2901.4)-7/15(3006.0)-8/15(3121.4)-5/16(3217.7)-6/16(3345.5)-6/16(3413.0)-8/16(3724.8)

dripless shaft seal adjusted 10/98(710.1)-4/06(153.9)[set at 1-1/8" compression]-01/12(1521.5)[set at 1-1/8" compression]-04/12(1532.5)[set at 1" compression]-02/28(2152.2)[set at 1-1/16" compression]-09/13(2125.8)set at 1-1/16" compression-11/13(2327.5)set at 1-1/16" compression-12/13(2334.0)set at 1"-5/16(3294.4)set at 1-1/16"

steering fluid (ATF) added 4/02new-2/12topped off after moving vent line-2/17added 1" to reservoir

GENERATOR

1326 hrs Operating hour inspection (20 hrs): Check/top-off oil/coolant levels 301.2-322.7-350.4-381.6-395.6-424.8-442.4-454.2-477.5- 490.1-506.7-518.8-536.7- 550.2-567.2-579.5-595.4-611.3-622.3-640.3-656.1-671.0- 686.7-701.3-714.2-729.4- 750.0-778.0-798.0-826.5-850.3-874.8-900.2-925.8-945.3- 975.5-1000.4-1027.2-1051.4- 1076.3-1101.8-1124.5-1149.0-1175.1-1200.2-1221.3-1237.4-1258.2-1271.1-1290.0-1306.0

1366 hrs Operating hour inspection (40 hrs): Check/clean sea strainer, check/tighten belt, check/tighten hoses/clamps 301.2-350.4-395.6-442.4-477.5-506.7-550.2-579.5-622.3-671.0-714.2-778.0- 823.7-880.4-894.4-945.3-1000.4-1051.4-1101.8-1124.5-1165.0-1200.2-1237.4-1271.1-1306.0

1406 hrs Change lube oil and filter, take Level II oil sample (100 hrs or 1 yr): (3 liters Delo 400 15W-40, LO filter N/L or Baldwin BT131) **[Do not overfill. TAKE LO SAMPLE 30 SECONDS AFTER STARTING TO PUMP OIL]** (350.0)-8/98(565.9)-1/99(748.6)-9/99(1031.0)-10/00(1400.0)-7/01(1699.9)-2/02(1967.9)-10/02(2271.6)-8/03(2560.4)-8/04(2861.4)-1/05(0075.4)-10/06(278.6)-7/07(470.6)-11/07(718.7)-3/09(943.4)-1/10(1057.2)-2/11(1101.8)-12/11(1124.5)-9/13(1181.2)-12/14(1237.4)-1/16(1271.1)-1/17(1306.0)

ADDITIONS and ADJUSTMENTS: Generator

lube oil added 1/17(1306.0)new

FW coolant added 2/15(1237.4)new

sea strainer cleaned 5/98-4/99-2/00-2/01-2/02-3/03-3/04-7/04-4/06-3/08-12/09-1/11-1/12-5/13-4/14-

CALENDAR MAINTENANCE SCHEDULE

Every Month:

03/17	Exercise ME (every month):	2/27
04/17	Exercise Generator (every month):	3/5
04/17	Exercise Hot Air Furnace (every month):	3/3
03/17	Exercise FW System (every month):	3/3
03/17	Exercise Ice Maker (every month):	2/27
04/17	Exercise Sanitary System (every month):	3/3
03/17	Exercise Aft Toilet Sea Water supply (every month):	2/14
02/17	Exercise both manual steering and autopilot systems (every month):	1/16
11/16	Exercise AVON outboard (every month):	10/10
02/17	Exercise all navigation equipment (every month):	1/16
03/17	Exercise cabin heater - check/clean burner (every month):	2/21
02/17	Exercise Anchor winch (every month):	1/16
03/17	Run FO tank sump pump (every month):	2/21
03/17	Test Shore Power ELCI circuit breaker (every month):	2/13

Every 3 months or more:

Pending -----

Underwater Maintenance Schedule

03/17	When hauled, inspect for dry keel via bilge access port (every year):	3/06-5/07-4/08-12/08-12/09-12/10-12/11-3/13-12/13-1/15-3/16
03/17	Replace propeller nut anode (G) (every year):	12/97-10/98-5/99-10/99-3/00-10/00-5/01-11/01- 4/02ok-4/03-4/04-4/05-4/06-5/07-4/08-12/08-3/10-4/11-12/11-2/13-12/13-1/15-3/16
03/17	Replace shaft anode (limited collar 1-3/4") (every year):	4/02-4/03-4/04-4/05-4/06-5/07-4/08-12/08- 3/10-4/11- 12/11-2/13-12/13-1/15-3/16
03/17	Replace transom anode (1/2" x 6" x 12") (every year):	3/98-5/99-3/00-5/01-4/02-4/03-4/04-4/05-4/06-5/07- 4/08- 12/08-3/10-4/11-12/11-2/13-12/13-1/15-3/16aluminum
03/17	Check/clean external sea water inlet strainers and thru-hull fittings (every year):	3/98-5/99-3/00-5/01-4/02-4/03-4/04-4/05-4/06 strainers removed/cleaned-5/07-4/08-12/08-3/10-4/11-12/11-2/13-12/13-1/15 strainers removed/cleaned-3/16
03/17	New bottom paint as needed (every 2-3 years):	3/97-5/99-4/00-5/01-4/02-4/03(2-yr paint)-4/05touchup-4/06new-12/08new(3-yr paint)-3/10ok-4/11ok-12/11new(3-yr paint)-12/13one gal touchup-1/15new(3-yr paint)-3/16spot touchup

3/17 - Haul for pressure wash, anodes and partial bottom paint

3/18 - Haul for pressure wash, anodes and full bottom paint

3/19 - Haul for pressure wash, anodes and spot bottom paint

12/19 - Haul for new pressure wash, sanding, anodes and full bottom paint (last copper paint allowed?)

03/17	Check cutless bearing for wear (every year):	12/97-5/99-3/00-5/01-4/02-4/03-4/04-4/05-4/06new-5/07-4/08-12/08-3/10-4/11-12/11-2/13-12/13-1/15-3/16
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- 03/17 Check automatic bilge pumps and bilge pump alarm system for proper operation (every 3 months): 7/99-11/99-5/00-10/00-7/01-12/01-1/02-04/02-6/02-7/02-8/02-10/02-12/02-2/03-4/03-6/03-8/03-10/03-12/03-3/04-5/04-7/04-09/04-11/04-3/05-5/05-7/05-9/05-6/06-8/06-10/06-12/06-4/06-6/07-8/07-10/07-12/07-2/08-4/08-6/08-8/08-7/09-10/09-1/10-4/10-7/10-10/10-1/11-4/11-7/11-10/11-1/12-4/12-7/12-3/13-6/13-9/13-12/13-3/14-6/14-9/14-12/14-3/15-6/15-9/15-12/15-3/16-6/16-9/16-12/16
- 03/17 Lube/inspect davit winch wire (every 6 months): (LPS3/Fluid Film) 2/02new wire-8/02-3/03-8/03-4/04-10/04-4/05-7/06new wire-03/07new wire-10/07-8/09ok-2/10-8/10-4/10-10/10-4/11-10/11-4/12-4/13-10/13-4/14-10/14-4/15-09/15new wire-4/16-10/16
- 03/17 Check steering system fluid level and plumbing (every 6 months): 6/98-1/99-6/99-10/99-5/00-11/00-5/01-11/01-5/02-10/02-3/03-10/03-4/04-11/04-4/05-4/06-10/06-04/07-10/07-4/08-7/09-1/10-7/10-2/11-7/11-1/12-7/12-4/13-10/13-4/14-10/14-4/15-10/15-4/16-10/16
- 03/17 Inspect/clean aft deck hatch seals (every 6 mo): 10/01-4/02-10/02-4/03-10/03-4/04-10/04-4/05-4/06-3/07-10/07-4/08-5/09-11/09-5/10-11/10-4/11-10/11-4/12-4/13-10/13-4/14-10/14-4/15-10/15-4/16-10/16
- 03/17 Check hose connections and exercise thru-hull valves (every 6 months): 4/01-11/01-4/02-11/02-4/03-10/03-4/04-10/04-4/05-4/06new-10/06-5/07-10/07-4/08-12/08-7/09-2/10-8/10-2/11-8/11-2/12-3/13-9/13-4/14-10/14-4/15-10/15-4/16-10/16
- 03/17 Exercise FW system valves (every 6 months): (tank supply, aft toilet, fwd toilet, faucets) 3/00-2/01-11/01-4/02-3/03-9/03-4/04-10/04-4/05-4/06-10/06-04/07-10/07-4/08-12/08-7/09-1/10-7/10-2/11-8/11-1/12-7/12-3/13-9/13-4/14-10/14-4/15-10/15-4/16-10/16
- 03/17 Exercise manual and electric bilge pumps (every 6 months): 7/99-11/99-5/00-10/00-7/01-12/01-1/02-7/02-4/03-10/03-4/04-10/04-4/05-6/06-5/07-10/07-4/08-7/09-1/10-7/10-1/11-7/11-1/12-7/12-3/13-9/13-3/14-9/14-4/15-10/15-4/16-10/16
- 03/17 Check/clean fuel tank sump pump filter (check every 6 months, change element as needed) [Do not open filter housing if fuel level is above tank outlet – around 90%]: 3/03new-4/04ok-7/06new-10/08ok-12/09new-12/10ok-12/11ok-12/12new-3/13ok-9/13new-3/14ok-9/14ok-3/15ok-9/15ok-3/16new-9/16ok
- 03/17 Check alarm bell system sensors/wiring (every 6 months): 11/99-5/00-11/00-5/01-11/01-5/21-11/02-5/03-11/03-5/04-11/04-4/05-4/06-10/06-04/07-10/07-4/08-7/09new-1/10-7/10-1/11-7/11-1/12-7/12-3/13-9/13-3/14-9/14-3/15-9/16
- 03/17 Check alarm siren system sensors/wiring (every 6 months): 7/09new-1/10-7/10-1/11-7/11-1/12-7/12-3/13-9/13-3/14-9/14-3/15-9/15-3/16-9/16
- 03/17 ME full power test (every year after haul out): (30 minutes to 2200, then 20 minutes at 2200 rpm under load, then test for max rpms under load, then test for max rpm's no-load.) 12/97-10/00-10/01-4/02-4/04-5/06-5/10-3/12-12/13-12/14-3/16
- 03/17 Flush/clean holding tank (every 6 months): (use "NoFlex Digester" for cleaning) 1/14-12/14-3/15-9/15-3/16-9/16
- 03/17 Check furnace exhaust and air intake/discharge ducts, wiring and fuel connections. Clean/replace screen and glow plug if needed (every year): 6/07-9/08-12/09-12/10-12/11-03/13-3/14-3/15new-2/16new plug/screen-10/16new plug/screen
- 03/17 Service hot water heater and FW system accumulators (every year): (Inspect water heater 120VAC connections, drain water heater from cold water inlet, check proper air pressure on accumulators) 2/08-12/10-3/12-3/13-3/14-3/15-3/16
- 03/17 Change galley sink FW filter (every 2 years): 7/15
- 03/17 Re-register 406MHz EPIRB (every 2 years): 1/07new-11/08updated-10/10updated-10/12updated-3/13updated-3/15updated
- 04/17 Test smoke/fire alarm sensors (every 3 months): 11/09new-2/10-5/10-9/10-12/10-3/11-6/11-9/11-12/11-3/12-7/12-3/13-6/13-9/13-12/13-3/14-6/14-7/14-10/14-1/15-4/15-7/15new-10/15-1/16-4/16-7/16
- 04/17 Test CO alarm sensors (every 3 months): 12/09new-3/10-6/10-9/10-12/10-3/11-6/11-9/11-

12/11-3/12-7/12-3/13-6/13-9/13-12/13-3/14-6/14-7/14-10/14-1/15-4/15- 7/15new-10/15-1/16-4/16-7/16

04/17 Check/replace ME heat exchanger anode (zinc) (check every 6 months, replace as needed): 3/98-10/98-5/99ok- 7/99- 1/00-7/00ok-10/00-5/01ok-10/01-2/02ok-10/02-04/03ok-10/03-3/04ok-11/04-4/05-4/06- 10/06-5/07-10/07-5/08- 4/09-12/09-7/10-2/11-10/11-5/12-9/12-5/13ok-9/13-3/14ok-10/14- 3/15ok-7/15ok-10/15-4/16ok-11/16

04/17 Check/clean FW supply strainer (*Do not over tighten*), FW pump fittings/connections (every 6 months): 1/00-7/00-3/01-7/01-5/02-3/03-9/03-4/04-10/04-4/05-4/06-5/07-10/07-5/08-7/09-2/10- 5/10-11/10-4/11-10/11-4/12-7/12-3/13-10/13-4/14-10/14-4/15-10/15-4/16-10/16

04/17 Evinrude outboard lubrication points (3 grease fittings) (every 3 mo while using): 4/10new-10/10-4/11-10/11-5/12-10/12dealer-4/13-10/13-4/14-10/14-5/15-8/15-12/15-4/16-7/16-10/16

04/17 Clean air cooling screens on back of inverter (every 3 years): 10/98-12/00-8/02-4/04-6/06-5/08-4/10-4/12-4/14

04/17 Test Emergency 120VAC Bilge Pump (every year): 4/00-4/01-3/02-4/03-4/04-4/05-5/06-6/07-4/08-7/09- 5/10-4/11-4/12-5/13-4/14-4/15-5/16

04/17 Perform leak test on LPG plumbing (every year): (Assume connected tank has LPG and solenoid valve is SHUT: Open tank valve until gauge reads 90psi, shut valve, pressure should remain constant for minimum 15 minutes. Test for both tanks, then separately test for plumbing from solenoid valve to stove by opening solenoid valve.) 4/05-6/06-4/07-4/08-6/09-5/10-6/11-5/12-6/13-4/14-6/15-4/16

04/17 Inspect life jackets (every year): 10/98-5/99-11/99-5/00-12/00-5/01-6/02-5/03-5/04-5/05-6/06-5/07- 5/09-6/10-6/11-6/12-4/13-4/14-4/15-4/16-

04/17 Inspect/exercise immersion suits(every year): 10/98-5/99-11/99-5/00-12/00-5/01-6/02-5/03-5/04- 5/05-6/06-7/07-5/08-6/09-6/10-5/11-4/12-6/13-4/15-4/16

04/17 Replace batteries in immersion suits, Type I life jackets strobe lights, laser rescue light and safety bag/tender flashlights (every year): 10/98-11/99-5/01-4/03-5/04-5/05-6/06-7/07-6/09-6/10-5/11-6/12-6/13-4/14-4/15-4/16

04/17 Evinrude outboard annual service (every year): 4/10new-4/11-4/12-11/12dealer-4/13-4/14-3/15dealer-5/15-4/16

04/17 Inspect Life Sling (every year), change automatic actuator button (every year) and perform manual inflate overnight test (every 2 years*): 10/98-5/99-11/99-5/00*- 12/00-5/01-6/02*-5/03-5/05-7/06*- 4/09*- 4/10-5/10-5/11-4/12*-6/13-4/14*-5/15-4/16*

04/17 Inspect Type V Life Vests (every year), change automatic actuator button (every year), manual inflate overnight test (every 2 years*): 5/01-6/02- 5/03*-5/05*-7/06-7/07*-4/09*-4/10-5/11-4/12*-6/13-4/14*-5/15-4/16*

04/17 Check/clean all battery terminals/connectors (every year): 10/98-5/99-3/00-4/01-4/02-4/03-3/04- 4/05-4/06-5/07-4/08-4/09-3/10-4/11-4/12-4/13-4/14-4/15-4/16

04/17 Treat FW system with chlorine bleach (consider every year): (if needed, per instructions in FW System section) 3/03done-5/04done-6/05ok-6/06done-5/07ok-5/08ok-7/09ok-5/10ok-5/11ok-4/12done-5/13ok-4/14ok-4/15ok-4/16ok

04/17 Check intermediate shaft bearing set screws (every year): (Keep these screws loose so that the transmission thrust bearing takes the propulsion thrust) 4/03-4/04-4/05-4/06- 5/07-6/08-4/10-4/11-12/11- 4/12-4/13-4/14-4/15-4/16

04/17 Service portable fire extinguishers (every year): 7/97-3/99-5/00-5/01-4/02-5/03-5/04-6/05-6/06- 5/07-3/08-6/09-6/10-6/11-4/12-4/13-4/14-4/15-4/16

04/17 Service ER Halon extinguishers (every year): 5/97-6/99-5/00-5/01-4/02-5/03-5/04-6/05-6/06-5/07- 3/08-6/09-6/10-6/11-4/12-4/13-4/14-4/15-4/16

04/17 Check autopilot drive box electrical connections (every year): 5/98-6/99-5/00-4/01-4/02-3/03-3/04- 4/05-4/06-3/07-4/08-7/09-7/10-7/11-1/12-6/13-4/14-4/15-4/16

04/17 Inspect/tighten ME mounts (every year): 2/01(1461.0)-7/02(2039.2)-4/03(2325.0)-3/04(2694.4)-4/05(0075.3)-4/06(0153.9)-5/07(296.4)-7/09(889.1)-5/10(1057.9)-5/11(1247.0)-2/12(1521.5)-4/12(1532.3)-4/13(2069.9)-4/14(2354.5)-3/15(2949.6)watch strb fwd, fwd lag under HOALT-2/16(3160.8)replaced fwd mount fasteners

- 04/17 Inspect flares (every year): 10/98-4/99-5/00-5/01-4/02-4/03-4/04-4/05-5/06-5/07-4/08-4/09-4/10- 4/11-4/12-4/13-4/14-4/15-4/16
- 04/17 Purge air from steering system at hydraulic pump in lazarette (every year): 4/02-5/02-6/02-7/02- 8/02-10/02-12/02-3/03-3/04-3/05-5/06-5/07-4/08-6/09-6/10-6/11-5/12-6/13-4/15-4/16
- 04/17 USCG Aux Vessel Inspection (every year): 1998-1999-2001-2002-2003-2004-2005-2006-2007- 2008-2009-2010-2011-2012-2013-2014-2015-2016
- 04/17 Remove cover plate from HW tank and inspect wiring (every year): 12/11new wiring-5/12-3/13-3/14-4/15-4/16
- 04/17 Remove aft shorepower plug and inspect plug and connecting cables (every 4 years, replace every 12 years): 12/98-1/00- 2/02-3/03-3/04-5/09new-4/13ok
- 04/17 Remove forward shorepower plug and inspect plug and connecting cables (every 4 years, replace every 12 years): 2/02new-3/03-3/04-4/06-5/09new-4/13ok
- 04/17 Check/wash ME turbocharger (every 3 years): 1998ok-2000wash-2002ok-3/04(2694.4)wash-4/07ok-4/10(1029.0)wash-5/13(2191.0)ok-2/14(2352.1)wash
- 04/17 10lb CO² #2 bottle hydrostatic testing (every 5 years): 7/97-8/02-5/07-4/12
- 05/17 Test 406 MHz PLB (every other month while cruising - max 12 times/year) (First 5 min of any hour, hold self-test button for 8 sec, then wait for 3 green lights/3 beeps): 2015: 3/17-5/16-7/15- 9/15. 2016: 5/7-7/30-9/5
- 06/17 Exercise HW tank temperature mixing valve (every 3 months): (Assume HW tank heated to heat setting, set mixing valve at 4 and run water for 2 minutes, then set valve at 0 and run water for 2 minutes, rest water pump for 3 minutes, repeat for 1 minute intervals, then set valve at normal 2) 10/08-6/09-12/09-6/10- 12/10-6/11-12/11-7/12-3/13-9/13-12/13-3/14-6/14-9/14-12/14-3/15- 6/15-9/15-12/15-3/16-6/16-9/16-12/16-3/17
- 06/17 Discharge/recharge portable VHF battery (every 3 months): 5/02-6/02-7/02-9/02-11/02home- 4/03-6/03-8/03-10/03-12/03home-6/04-10/04-12/04-1/05home-6/05-8/05-10/05home-10/06- 6/07-8/07-10/07-12/07-2/08-4/08-6/08-6/09-12/09-3/10-6/10-9/10-12/10-3/11-6/11-9/11- 12/11-3/12-6/12-9/12home-4/13-7/13-9/13home-4/14-6/14-9/14-10/14home-3/15new-6/15-9/15-12/15-3/16-6/16-9/16-12/16-3/17
- 06/17 Replace battery 406MHz EPIRB (every 5 years): EPIRB and battery new 10/06 with 11/11 battery expiration - new battery 2/12 with June 2017 expiration-
- 07/17 Check/tighten steering system hydraulic pump pulley and belt (every 6 months): 6/98-1/99-6/99new belt-10/99-5/00-11/00-5/01-11/01-5/02-10/02-3/03-10/03-4/04-11/04-4/05-4/06-10/06-04/07- 10/07-4/08-7/09-1/10- 7/10-2/11-7/11-1/12-7/12-3/13-9/13-1/14-7/14-2/15new belt-7/15tightened belt tension-1/16-7/16-1/17
- 07/17 Replace AA batteries (2) in CO detectors (2) (every year): 12/09new-12/11-7/12-7/13-7/14-7/15new-7/16
- 09/17 Change forward ME primary fuel oil filter (after 4 years of use, or when vacuum gauge indicates): 5/00(1116.6)-6/01(1549.7)-8/02(2221.2)- 5/04(2706.8)-7/05(86.0)- 7/09(889.1)new system-9/13(2321.2)
- 09/17 Change aft ME primary fuel oil filter (after 4 years of use, or when vacuum gauge indicates): 5/00(1116.6)-12/00(1421.8)-10/01(1883.0)-9/03(2654.0)- 2/05(75.3)- 7/09(889.1)new system [in use 9/13(2321.2)
- 09/17 Change ME secondary fuel oil filter (every other primary filter change, or 4 years): 4/98-5/00(1116.6)-2/01(1461.0)-10/01(1883.0)-8/02(2221.2)-5/04(2706.8)- 7/06(0163.6)-9/09(0942.9)-9/13(2321.2)-3/16(3161.5)remove and peel off cover to inspect for cleanliness-very clean-maintain 4 yr interval
- 09/17 Change GEN secondary fuel oil filter (every 4 years): 5/98(213.1)-2/00(395.6)-2/01(477.5)-3/03(671.0)-1/05(871.1)- 4/06(894.4)-1/10(1057.2)- 9/13(1181.0)-
- 09/17 Change primary fuel oil filters for generator and cabin heater/furnace (Racor 120S) (every 4 years): 3/03-1/05-4/07-6/10-9/13
- 12/17 Generator full AC power test (every year): (30 minutes at 32+ amps, then test for max AC output (41.7A). Check wire temps at GEN CB.) 3/98-1/00-2/01-2/02-3/03-3/04-4/07-4/08-1/10-1/11- 4/12-4/13-1/14-12/15-12/16

2018

- 01/18 Check/clean SW supply strainer for aft head (*Do not over tighten*), SW pump fittings & connections (every year): 2/12-12/12-12/13-1/15-1/16-1/17
- 01/18 Inspect/change GEN SW pump impeller (every year): 2/00(400.0)new-2/02(579.5)ok-3/03(671.0)ok-3/04(778.0)new-7/04(803.0)new-3/05(871.1)new style-4/06(894.4)new-3/07(945.3)new-3/08(990.5)new-1/10(1057.2)new-2/11(1101.8)ok-1/12(1124.5)new-6/13(1155.4)new-2/14(1186.6)ok-1/15(1237.4)ok-2/16(1271.1)ok-1/17(1306.6)new
- 01/18 Check HW tank anode and electrical connections (every 2 years): 1/16new
- 01/18 Change GEN coolant (every 3 years): 2/00-2/02(579.4)-3/04(778.0)-4/06(894.4)-4/08(990.5)-1/10(1057.2)-1/12(1124.5)-2/15(1237.4)
- 01/18 Check/clean GEN heat exchanger (every 3 years): 3/00cleaned-2/02ok-2/04ok-4/06cleaned-4/08ok-1/10ok-1/12(1124.5)cleaned-2/15(1237.4)ok
- 01/18 Check/replace GEN exhaust elbow (every 3 years): 3/00new-2/02ok-2/04ok-4/06new-4/08ok-1/10ok-1/12new SS model-1/15ok
- 02/18 Disconnect/inspect/grease/reassemble/adjust ME control cable ends (every year): 1/98-2/02-4/05-10/08-12/11-11/13-2/15new-2/16-2/17
- 02/18 Change ME gear oil (every 2 years): (Dexron III, about 3 quarts capacity) 4/12(1529.6)new transmission-5/13(2069.9)-11/13(2323.3)-11/14(2942.0)-2/16(3160.8)
- 02/18 Evinrude outboard dealer service (300hrs or 3 years): 4/10new-10/12-3/15
- 03/18 Service hot-air furnace (every 3 years): 7/06installed-12/09serviced-3/12serviced-3/14checked out ok-12/14checked out ok-3/15circuit board failed, replace with Airtronic D5
- 04/18 Check/clean anchor winch motor connections and 12VDC wiring (every 3 years): 4/02-7/10-4/12new-4/15
- 04/18 Check/re-seal portlights (every 3 years if needed): 2/06done-2/12ok-4/15ok
- 04/18 Replace Sanitary System Holding Tank discharge pump duckbill valves (1-1/2") (every 4 years): 2/09-8/14new
- 10/18 10lb CO² #1 bottle hydrostatic testing (every 5 years): 10/13
- 11/18 Remove & check ME exhaust riser (every 2-4 years): 1998rebuilt-2002rebuilt-2006rebuilt-2/10ok-2/12ok-8/13rebuilt-11/16inspected ok
- 12/18 Break shaft coupling, re-align ME (every 3 years): 1998-12/04-5/06-12/11-4/12-12/13-12/15new fwd mount fastenings

2019

- 02/19 Replace glue in AVON repair kit (every 5 years, replace sooner if container opened): 6/02-5/07-2/14
- 04/19 Check ME SW strainer, replace/tighten hoses/gaskets/fittings as needed (every 4 years): 11/97-3/03-4/06-4/10-7/11-4/15ok
- 10/19 Change ME coolant (every 3 years): (50% anti-freeze - about 6.5 gal full capacity) 10/00(1401.0)-2/02(1967.9)dexcool-3/04(2694.4)dexcool-4/06(153.9)-4/10(1029.0)dexcool-9/13(2322.2)ethylene/glycol yellow/green-11/16(3754.1)
- 10/19 Check/clean ME gear cooler (every 3 years – sync with ME coolant changes): 1998new-2001ok-2003ok-4/06ok-3/10ok-4/12new-11/16ok
- 10/19 Check/service ME heat exchanger (check every 3 years, service every 6 years): 1995serviced-1999ok-2002 acid cleaned/pressure tested-5/06ok-3/10 acid cleaned/pressure tested-4/13ok-11/16new

2020

- 01/20 Manufacturer inspection of immersion suits (every 5 years): 3/03-6/09-1/15
- 01/20 Check/clean GEN injectors (every 6 years): 2/02(579.4)rebuilt-4/08(990.5)ok-2/14(1186.6)ok

04/20 Replace bellows on dripless shaft seal (every 8 years): 5/98-3/06-4/12

2021

01/21 Check/adjust GEN valve clearances (every 6 years): 2/02(579.4)adj-2008 engine running well-2/14(1186.6) engine running well-2/15(1237.4)adj

03/21 Reseal boat deck railings, hatch covers & fittings (every 6 years): 2006-2/09-12/2010 (hatch cover screws re-bedded)-4/15

03/21 Tighten Mast stay supports, reseal support cap (every 6 years): 2/03-3/09-4/15

2022

03/22 Aft 10lb propane bottle hydrostatic testing (after first 12 years, then every 5 years): 2/05new-3/17

2025

07/25 Replace CO alarm sensors (10 years): 10/03-12/09-7/15

07/25 Replace Smoke/Fire alarm sensors (10 years): 10/03-12/09-7/15
