

Subject: Zodiac Hull XDC73572L001 Survey

Dates: 5 May 2014

Attachments: None

1. **Purpose:**

This survey was conducted to determine the structural, electrical and mechanical condition of Zodiac Hull R108.

2. **Background:**

The subject craft is constructed of fiberglass and is powered by two 150 horsepower (HP) Evinrude E-TEC outboard engines. At the time of this survey, the port outboard engine (SER: 05274087) had recorded approximately 502 hours of operation and the starboard outboard engine (SER: 05273475) had recorded approximately 504 hours of operation according to the hour meters on the console.

3. **Brief:**

The subject craft was surveyed on its trailer. Visual inspections were performed on the craft. All compartments were open for inspection except the fuel tank. Physical access below main deck does not exist. Only problems that were identified are noted herein; structure and equipment that appeared undamaged are not mentioned. Engines were not operated at the time of this survey.

3.1 **Bow Compartment:**

Structural:

- a. Compartment top non-skid missing

3.2 **Forward Deck:**

Structural:

- a. Fuel vent hose sponson connection tab missing – (P)
- b. Forward tow post paint chipped/missing
- c. Fuel vent hoses (2ea) cracked
- d. Forward deck soft patch sealant deteriorated

Mechanical:

- a. Fuel lines hose clamps rusted and single hose clamp installed
- b. Fuel fittings corroded

Electrical:

- a. Green bonding wire disconnected from fuel tank below deck – (CL)

3.3 Inside Console:

Electrical:

- a. Battery switch not utilized – (P)
- b. Accessory, Battery 1 and Battery 2 reset push buttons rusted – (P)
- c. Battery switches (3ea) terminals corroded – (P)
- d. Miscellaneous wires disconnected at reset push buttons – (CL)
- e. Red wire disconnected at anchor light switch – (CL)
- f. Bilge pump indicator light disconnected – (CL)
- g. Switch (1ea) missing at 12V panel – (CL)
- h. Positive and negative terminal blocks terminals corroded – (CL)
- i. Miscellaneous cables not secured properly throughout
- j. Miscellaneous cables dead ended in cableways throughout

3.4 Console:

Structural:

- a. Hardtop frame to console connection spacers missing (2 places) – (P)
- b. Console flange at deck connection missing paint and corroded – (P/S)
- c. Hardware rusted and pulled up at console flange to deck connection (1 place) – (S)
- d. Hardtop frame to console connection spacers cracked (2 places) – (S)
- e. Rusted windshield hardware (16 places)
- f. Chipped/missing paint throughout
- g. Radar mounting plate hardware (5ea) rusted
- h. Approximately twenty (20) screw/bolt holes in the console throughout

Mechanical:

- a. Excessive play in throttle – (P)
- b. Engine steering operation difficult

Electrical:

- a. Dimmer switch inoperative – (P)
- b. Two (2) holes in top of console for GPS not packed properly – (P)
- c. Stuffing tube not packed properly – (P)
- d. Battery test switches (3ea) inoperative – (P)
- e. 12V panel toggle switch boot (1ea) missing – (CL)
- f. 12V panel reset push button boot (1ea) missing – (CL)
- g. 12V panel not labeled properly – (CL)
- h. Horn rusted – (CL)

- i. Radar inoperative – (CL)
- j. Forward deck light inoperative – (CL)
- k. Aft deck light inoperative – (CL)
- l. Approximately 1” diameter hole in top of console under VHF radio not packed properly – (S)

3.5 Cockpit:

Structural:

- a. Console deck soft patch forward outboard fasteners pulled through material and patch lifted upward; sealant missing/deteriorated – (P/S)
- b. H920 model vice H773 model leaning post installed; missing rotatable flip up back rest; missing hole plug aft side – (CL)
- c. Leaning post seat cover missing and foam ripped/torn – (CL)
- d. Chipped/missing paint on leaning post throughout
- e. Leaning post aft hatch cracked – (CL)
- f. Aft fuel tank hatch (interior of leaning post) cracked – (CL)
- g. Deck tie down missing fastener – (S)
- h. Fire extinguisher bracket not secured – (S)

Mechanical:

- a. Fuel lines single hose clamps installed and rusted – (CL)
- b. Sending unit hardware rusted – (CL)

3.6 Hardtop:

Structural:

- a. Approximately 7/8” diameter hole in hardtop – (S)
- b. Dive flag post bent – (S)
- c. Missing/chipped paint throughout
- d. Approximately twenty (20) screw/bolt holes throughout
- e. Approximately ten (10) mounting fasteners rusted throughout
- f. Missing quick release pin for collapsible mast

Electrical:

- a. Antenna cable dead-ended – (P)
- b. Navigation light wiring not spliced properly (wire nuts utilized) – (P)
- c. Chaffing material missing at arch – (P)
- d. Middle white RAM lights (2ea) inoperative – (P)
- e. RAM lights not spliced properly – (CL)

3.7 Aft Deck:

Structural:

- a. Cracks in paint/gel coat at diver door corners (2 places) – (P)
- b. Sponson section aft of diver door ripped at retaining strap – (P)
- c. Aft paddle stowage on sponson ripped (2 places) – (S)
- d. Aft tow post missing/chipped paint throughout

3.8 Transom Compartment/Aft Bilge:

Structural:

- a. Compartment hatch incorrect color (white) – (CL)
- b. Compartment top face three (3) miscellaneous holes – (S)
- c. Compartment forward face missing hardware and loose – (S)

Mechanical:

- a. Fuel selector valve (2 each) corroded – (P/S)
- b. Oil fill hoses single hose clamp installed (2 places) – (P/S)
- c. Bilge pump not secured properly – (CL)
- d. Bilge pump hose single hose clamp installed and incorrect length – (CL)
- e. Fuel lines single hose clamps installed throughout
- f. Fuel fittings on RACOR filters rusted
- g. Hydraulic steering T-fitting (2 each) and female fitting (6 each) corroded

Electrical:

- a. Bilge pump connections not spliced properly; dead-ended cable connected to splice – (CL)

3.9 Hull Exterior:

Structural:

- a. Sponson retaining fabric straps torn/ripped (5 places) – (P)
- b. Diver door deflated and prior repairs evident (2 places); aft fabric retaining strap torn – (P)
- c. Sponson section aft of diver door orange cover ripped on bottom and handle strap torn; black protective rubber strips unglued – (P)
- d. Scupper bags worn (2 places) – (P/S)
- e. Sponson rope handle grommets pulled out (3 places) – (P/S)
- f. Miscellaneous chips/dings in paint/gel coat exposing fiberglass on hull strakes and bow area (40 places) – (P/CL/S)
- g. Gouges and scrapes along keel exposing fiberglass and hull bottom – (P/CL/S)
- h. Aluminum engine bracket to transom connection black sealant cracked and deteriorated – (P/CL/S)
- i. Aluminum engine bracket paint chipped/discolored on top surface and near engine mounts – (P/CL/S)

- j. Bow sponson cover worn; small tear – (CL)
- k. Gel coat scraped at stem below sponson to keel doubler – (CL)
- l. Bow eye exterior flat plate bent and sealant deteriorated – (CL)
- m. Crack at keel doubler to stem connection; unable to determine extent of crack – (CL)
- n. Transom zinc deteriorated – (CL)
- o. Sponson retaining fabric straps torn/ripped (6 places) – (S)
- p. Aluminum engine bracket side minor deflection and scuffed – (S)
- q. Engine guard aft bolt hole from transom to guard bracket hole ripped out and missing hardware – (S)
- r. Aft sponson retaining fabric strap loose at transom – (S)
- s. Chipped gel coat and exposed fiberglass at transom corner below sponson – (S)
- t. Aluminum engine guard chipped/missing paint
- u. Light marine growth throughout hull bottom

3.10 Outboard Engines:

Structural:

- a. Engine prop blade tips dinged and bent – (P)
- b. Engine mount (2 each) lower unit (2 each) zincs deteriorated – (P/S)
- c. Engine lower unit right side whale tail damaged – (P/S)
- d. Engine lower unit skeg bent and missing paint – (S)

Mechanical:

- a. Engine cable protective cover torn at engine – (P)
- b. Engine cables protective hoses not connected – (P/S)

Electrical:

- a. Positive lead at start solenoid corroded – (P)

3.11 Trailer (SER: 1ZEVABVH0AA003616):

Structural:

- a. Wiring retaining clips to frame rusted (50 places) – (P/S)
- b. Bunk covers ripped (4 places) – (P/S)
- c. Transverse bunk support members rusted and galvanized coating scaling/chipped (2 places) fore and aft – (CL)
- d. Forward roller supports bent and twisted – (CL)
- e. Bow hook rusted – (CL)
- f. Fender bent and torn – (S)
- g. Hardware, U-bolts, bunk support clips heavily rusted throughout
- h. Axles rusted and galvanized coating scaling/chipped (2 places)

Mechanical:

- a. Wheel hubs, rotors, torsional axles heavily rusted (4 places) – (P/S)
- b. Emergency safety break cable broken – (CL)
- c. Vehicle safety cables covers torn and rusted (2 places) – (CL)
- d. Minor rust on winch – (CL)
- e. Brake lines heavy rust throughout

Electrical:

- a. Forward running lights near spare tire missing/broken (2 places) – (P/S)
- b. Tail light assembly missing – (S)