

Subject: Zodiac XDC73208G696 Survey

Dates: 5 May 2014

Attachments: None

1. **Purpose:**

This survey was conducted to determine the structural, electrical and mechanical condition of Zodiac Hull R106.

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: 05240408) had recorded approximately 1353 hours of operation and the starboard outboard engine (SER: 05240180) had recorded approximately 1625 hours of operation according to the hour meters on the console.

3. **Brief:**

The subject craft was surveyed on its traile. 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 hatch non-skid scuffed/missing

3.2 **Forward Deck:**

Structural:

- a. Deck tie down fastener broken (1 place) – (S)
- b. Forward tow post paint chipped

3.3 **Inside Console:**

Electrical:

- a. Battery switches (2ea) terminals corroded – (P)
- b. Search light receptacle disconnected – (P)
- c. Forward deck light missing – (P)
- d. Battery terminals loose – (P)
- e. Horn not utilized (new horn installed below existing) – (CL)
- f. Positive and negative terminal blocks terminals corroded – (CL)
- g. Dead-ended wire at navigation light switch – (CL)

- h. Fuse holder cover missing – (CL)
- i. Battery terminals corroded – (S)
- j. Improper cable type for negative lead between starboard battery and negative bus – (S)
- k. Port and starboard hour meters heavily rusted; terminals corroded – (S)
- l. White coax cable dead-ended in stuffing tube – (S)
- m. Miscellaneous cables not secured properly throughout
- n. Miscellaneous cables dead ended in cableways throughout

3.4 Console:

Structural:

- a. Steering wheel mounting hardware (4ea) rusted – (CL)
- b. Plexiglass windshield loose – (CL)
- c. Forward access hatch broken – (CL)
- d. Aft vent cover broken – (CL)
- e. Gauge hardware (8ea) rusted – (S)
- f. Approximately twenty (20) screw/bolt holes in the console throughout
- g. Leaning post seat cover worn
- h. Chipped/missing paint throughout on console and leaning post

Mechanical:

- a. Throttle loose; excessive play – (P)

Electrical:

- a. Approximately 3/8" diameter hole in top of console under VHF radio not packed properly – (P)
- b. VHF radio antenna cable not secured – (P)
- c. Search light receptacle dust cover missing – (P)
- d. Port and starboard water gauges inoperative – (P)
- e. Aft deck light inoperative – (P)
- f. Starboard water gauge needle broken – (P)
- g. Port and starboard trim/tilt gauges inoperative – (P)
- h. RAM light toggle switch boot missing – (CL)
- i. 12V panel missing mounting hardware (3 places) – (CL)
- j. 12V panel not labeled properly – (CL)
- k. Stuffing tube not packed properly on top of console – (S)

3.5 Hardtop:

Structural:

- a. GPS foundation rusted – (P)
- b. Console to hardtop frame spacers cracked (10 places) – (P/S)
- c. RAM light mast foundation hardware missing; one (1) rusted – (S)
- d. RAM light mast bracket cracked weld – (S)

- e. Hardtop aft support one (1) fastener hole and one (1) broken fastener – (S)
- f. Minor tears in canvas top
- g. Chipped/missing paint throughout

Electrical:

- a. Stuffing tube for navigation light not packed properly – (P)
- b. GPS mounting hardware (3ea) rusted – (P)
- c. Five (5) cable penetrations missing chaffing material inside electronics box – (P/S)
- d. Navigation light inoperative – (P/S)
- e. RAM lights not spliced properly – (CL)
- f. Whelen loudhailer not spliced properly – (CL)
- g. Electronics box spring for hinged door broke – (S)
- h. Whelen loudhailer strobe/siren inoperative – (S)
- i. Whelen loudhailer microphone missing – (S)
- j. GPS cable not secured throughout

3.6 Aft Deck:

Structural:

- a. Aft deck soft patch panel chipped 1/2" diameter – (P)

Mechanical:

- a. Fuel lines at fuel tank single hose clamp installed (2 places) – (CL)
- b. Distinct odor of fuel present in bilge

3.7 Transom:

Structural:

- a. Vent cap missing – (P)
- b. Vent cap loose/cracked – (S)
- c. Aft tow post paint chipped/missing

Electrical:

- a. Radar cables chaffing material missing at penetration – (S)

3.8 Transom Compartment/Aft Bilge:

Structural:

- a. Forward face sealant weathered/deteriorated – (P/CL/S)
- b. Hatch cover broken – (CL)
- c. Distinct odor of fuel present in bilge

Mechanical:

- a. Fuel selector valve loose and missing fasteners – (P)
- b. Fuel fittings on RACOR filters corroded (6 places) – (P/S)
- c. Bilge pump not secured properly – (CL)
- d. Bilge pump hose single hose clamp installed and hose kinked – (CL)
- e. Manual bilge pump parts missing – (CL)
- f. Fuel lines single hose clamps installed throughout (14 places)
- g. Debris in bilge in way of bilge pump filter cap
- h. Miscellaneous hoses not secured properly throughout

Electrical:

- a. Auto float switch for bilge disconnected – (CL)
- b. Miscellaneous cables not secured properly throughout

3.9 Aft Arch:

Structural:

- a. Chipped/missing paint throughout

Electrical:

- a. Garmin radar not secured properly; missing one (1) nut – (CL)
- b. Chaffing material missing for radar cables at penetration – (CL)

3.10 Hull Exterior:

Structural:

- a. Diver door weather stripping seal torn – (P)
- b. Aluminum engine bracket rectangular inspection plate missing three (3) fasteners – (P)
- c. Minor scuffs, gouges and scrapes throughout hull bottom – (P/S)
- d. Minor chips in gel coat on lifting strakes – (P/S)
- e. Aluminum engine bracket scuffed/missing paint on top and bottom surfaces, near engine mounts – (P/S)
- f. Exposed fiberglass; gel coat scraped/chipped at stem below sponson to beginning of keel doubler – (CL)
- g. Prior repair on bow; fairing compound on stem – (CL)
- h. Prior repair on top of keel doubler to stem connection – (CL)
- i. Fiberglass at bow eye chipped and sealant at hull connection deteriorated – (CL)
- j. Keel doubler reduced thickness from wear at bow, 15" in length – (CL)
- k. Transducer mount fastener rusted (1 place) – (CL)
- l. Chipped/missing paint on engine guard throughout
- m. Light marine growth throughout hull bottom

3.11 Outboard Engines:

Structural:

- a. Engine mount zincs deteriorated (2 places) – (P/S)
- b. Engine lower unit zincs deteriorated (2 places) – (P/S)

Mechanical:

- a. Oil leaking from engine housing, forward center – (P/S)
- b. Engine protective hose for engine cables not connected; ripped at engine (2 places) – (P/S)
- c. Hydraulic steering piston seal leak – (S)
- d. Engine protective hose for engine cables missing hose clamp at transom – (S)
- e. Minor bend in lower unit skeg – (S)

Electrical:

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

3.12 Trailer (SER: 1ZEVABVH9AA003615):

Structural:

- a. Fender damaged and cracked – (P)
- b. Bunk covers ripped/unattached to four (4) wooden bunks – (P/S)
- c. Minor surface rust at winch – (CL)
- d. Bow hook rusted – (CL)
- e. Clip retainers for securing wires to frame rusted (50 places) throughout
- f. Fasteners and U-bolts rusted throughout
- g. Bunk support clips heavily rusted (12 places) throughout
- h. Axles galvanic coating deteriorated and rust scale present (2 places)

Mechanical:

- a. Vehicle safety cable rusted – (P)
- b. Torsional axles rusted (4 places) – (P/S)
- c. Bow roller near winch heavily worn – (CL)