

Subject: 7mRX9623 Survey

Dates: 7 May 2014

Attachments: None

1. **Purpose:**

This survey was conducted to determine the structural, electrical and mechanical condition of Zodiac Hull R105.

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: 05240024) had recorded approximately 1415 hours of operation and the starboard outboard engine (SER: 5363525) had recorded approximately 1420 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. Aluminum cover for fuel lines missing – (CL)
- b. Compartment top rubber latch missing – (S)
- c. Compartment hatch non-skid missing and paint chipped

3.2 **Forward Deck:**

Structural:

- a. Forward tow post corroded at base – (CL)
- b. Forward deck patch fasteners incorrect type (2 places) – (CL)
- c. Sponson retaining strap flat bar missing one (1) fastener; one (1) fastener pulled out – (S)

Mechanical:

- a. Fuel vent line end fitting corroded and hose cracked – (P)
- b. Fuel vent lines single hose clamp installed; one hose missing hose clamps

3.3 Inside Console:

Mechanical:

- a. Hydraulic fittings at helm corroded – (CL)

Electrical:

- a. Forward deck light missing – (P)
- b. Charging relay (2ea) terminals corroded – (P)
- c. Positive and negative terminal blocks terminals corroded – (CL)
- d. Battery terminal hardware (1ea) rusted – (S)
- e. Unidentified black box not utilized – (S)
- f. Miscellaneous cables not secured properly throughout
- g. Miscellaneous cables dead ended in cableways throughout

3.4 Console:

Structural:

- a. Hardtop to console connection fasteners rusted (1 place) – (P)
- b. Helm steering wheel cover cracked – (P)
- c. Hardtop to console connection spacers (6 places) weathered/cracked – (P/S)
- d. Forward access hatch does not shut properly – (CL)
- e. Aft vent cover cracked – (CL)
- f. Leaning post seat cover torn – (CL)
- g. Hardtop to console connection fasteners rusted (2 places) – (S)
- h. Approximately 1” diameter hole in the side of the console – (S)
- i. Approximately 2” diameter blanking plate rusted in the side of the console – (S)
- j. Approximately thirty (30) screw/bolt holes in the console throughout
- k. Chipped/missing paint throughout console and leaning post

Mechanical:

- a. Excessive play in port and starboard throttle cables – (S)

Electrical:

- a. Search light receptacle corroded; dust cover missing – (P)
- b. Port engine trim/tilt gauge inoperative – (P)
- c. 12V panel toggle switch boots (5ea) missing/ripped – (CL)
- d. 12V panel reset push button boots (4ea) missing – (CL)
- e. 12V panel mounting hardware (4 places) missing – (CL)
- f. 12V panel not labeled properly – (CL)
- g. Stuffing tube not packed properly on top of console – (S)
- h. Aft deck light inoperative – (S)

3.5 **Cockpit:**

Structural:

- a. Sponson retaining strap flat bar missing two (2) fasteners near diver door – (P)
- b. Sponson retaining strap flat bar missing one (1) fastener – (S)

Mechanical:

- a. Fuel tank access hatch gasket worn – (CL)
- b. Fuel lines at fuel tank single hose clamped
- c. Fuel fittings corroded at fuel tank
- d. Fuel sending unit fasteners corroded

3.6 **Hardtop:**

Structural:

- a. Electronics box hinge cover missing – (CL)
- b. Approximately 2” blanking plate rusted in the side of the electronics box – (S)
- c. Miscellaneous hardware (4ea) rusted in the side of the electronics box – (S)
- d. RAM light mast mounting hardware (4ea) rusted; securing pin rusted – (S)
- e. Quick release pin for collapsible mast rusted

Electrical:

- a. VHF radio microphone clip hardware (2ea) rusted – (P)
- b. Flood lights inoperative – (P/S)
- c. Four (4) cable penetrations missing chaffing material inside electronics box – (P/S)
- d. Two (2) stuffing tubes not packed properly – (S)
- e. GPS antenna not mounted – (S)
- f. RAM lights multiple wire splices – (S)
- g. Miscellaneous wires spliced (approximately 10ea) improperly throughout the electronics box

3.7 **Aft Deck:**

Structural:

- a. Aft deck soft patch loose – (P)
- b. Sponson retaining strap flat bar missing one (1) fastener – (S)
- c. Chipped fiberglass in deck 1.5” diameter (2 places) – (S)
- d. Sponson retaining strap flat bar fasteners loose (10 places) – (S)

- e. Deck soft patch sealant weathered/deteriorated
- f. Aft tow post missing/chipped paint

3.8 Transom:

Structural:

- a. Vent cover missing – (P)
- b. Vent cover interior corroded – (S)
- c. Rope drum missing/chipped paint throughout

3.9 Transom Compartment/Aft Bilge:

Structural:

- a. Miscellaneous holes approximately 3/16" diameter (6 places) – (P)
- b. Compartment gasket worn – (P/CL/S)
- c. Auto bilge pump float bracket fasteners rusted – (CL)
- d. Unused transom thru hull not blanked – (S)
- e. Compartment forward face missing one (1) fastener – (S)

Mechanical:

- a. Oil reservoir fasteners corroded – (P/S)
- b. Fuel selector valve inoperable – (S)
- c. Racor fuel filter fittings corroded throughout
- d. Fuel lines single hose clamp installed throughout
- e. Miscellaneous hoses not secured properly throughout

Electrical:

- a. Depth transducer cable connector corroded – (P)
- b. Auto float switch for bilge inoperative – (CL)
- c. Three (3) penetrations in the side of compartment not utilized – (S)
- d. Miscellaneous cables not secured properly throughout

3.10 Aft Arch:

Structural:

- a. Missing/chipped paint throughout

3.11 Hull Exterior:

Structural:

- a. Forward overboard fitting chipped and weathered – (P)
- b. Engine bracket rectangular cover fasteners rusted (12 places) – (P)
- c. Transom hull penetration for engine controls not properly sealed for

- water tightness – (P)
- d. Aft of diver door sponson strap unglued and loose – (P)
- e. Forward sponson bow to side rubber gap seal torn halfway – (P/S)
- f. Bow sponson retaining strap flat bar rusted/corroded – (P/S)
- g. Gel coat chipped on spray rails (25 places) – (P/S)
- h. Engine mount zinc anodes deteriorated (2 places) – (P/S)
- i. Engine lower unit zinc anodes deteriorated (2 places) – (P/S)
- j. Engine cables protective hoses not connected – (P/S)
- k. Scuppers worn – (P/S)
- l. Forward bow sponson retaining strap flat bar bent – (CL)
- m. Bow stem fiberglass cracked; possible delamination – (CL)
- n. Keel doubler connection to stem at bow cracked; possible delamination – (CL)
- o. Keel from bow stem to hull bottom scrapes/gouges and missing paint; 2' long section of keel doubler ground/worn down – (CL)
- p. Holes in transom (2 places) near transducer; (1 place) near top of engine bracket – (CL)
- q. Transom zinc anodes deteriorated – (CL)
- r. Engine bracket round hatch missing one (1) fastener – (CL)
- s. Engine bracket rectangular cover fasteners rusted (4 places); one (1) broken fastener – (S)
- t. Engine guard chipped/missing paint; modified design not in accordance with original as built construction, engines contact guard when trimmed upward and excessive washers and missing hardware – (S)
- u. Aft sponson strap not connected to hull – (S)
- v. Engine bracket chipped/missing paint; seal to transom deteriorated on bottom
- w. Minor chips and scrapes throughout hull bottom
- x. Moderate marine growth

3.12 Outboard Engines:

Structural:

- a. Engine skeg minor bend – (P)
- b. Engine lower unit whale tail left side cracked; right side bent – (P)
- c. Minor dings on prop – (P)
- d. Dings and gouges on prop – (S)
- e. Engine lower unit whale tail both sides bent – (S)

Electrical:

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

3.13 Trailer (SER: 4JFBA232X5B005975):

Structural:

- a. Kickstand foot missing; operates improperly – (CL)
- b. Winch stand, winch and forward bow stop missing – (CL)
- c. Bunk wood deteriorated and cracked; missing covers
- d. Fenders missing (2 places)

Mechanical:

- a. Aft wheel missing – (P)
- b. Torsional axles rusted (4ea) – (P/S)
- c. Brakes and rotors rusted (2ea) – (P/S)
- d. Spare tire missing
- e. Brake actuator rusted
- f. Brake line disconnected at actuator