1738 PICKWICK PLACE-FLEMING ISLAND-FLORIDA-32003

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SURVEY REPORT VESSEL NAME: xxxxxxxxx

Prepared by: Bill Gladding AMS® #810

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GENERAL INFORMATION

SURVEY DATE: July 20, 2017

VESSEL & MACHINERY DATA

Vessel identification numbers (sighted aboard, photos at end of report if found aboard)

Hull ID #: ZA-OExxxxxxxx09 Registration #: South African Registry

Vessel type and dimensions (taken from vessel listing)

Manufacturer: Admiral Yacht Mfg Designer: Angelo Lavranos Model: 40 Executive Model year: 2009 Length: 43'0" Beam: 24'1" Draft: 4'9" Weight: 18,739 lbs

Hull composition: <u>fiberglass</u> **Engines** (sighted aboard)

Type and #: twin Saildrive Horsepower: 29@3,600 rpms Fuel type: diesel Manufacturer: Yanmar Model: 3YM30 Serial #: port (E14xxx), stbd (E14xxx) Hours: port (1,459), stbd (1,029) ***port from

log book

Saildrives (sighted aboard)

Manufacturer: Yanmar Model: SD20 Ratio: 2.64 Serial #: port (16xx-08), stbd (16xx-08)

Alternating Current Generator (sighted aboard)

Manufacturer: Farymann Diesel Model: 18W430 KW: 4.4 Fuel type: diesel Serial #: 18W90xxxx

Hours: <u>1,559</u>

TENDER DATA

Identification numbers

Hull ID #: EMDUxxxxxx15 Manufacturer: Highfield Model: Ultralite 260 Model year: 2015

Length: <u>8'6"</u> Beam: <u>5'7"</u>

Engine

Type and #: outboard Horsepower: 9.8 Fuel type: gas Manufacturer: Tohatsu Model: 3K9(M9.8B)

Serial #: 049xxxxx

RECOMMENDATIONS

(Items on this list should be addressed on a priority basis)

- 1. Install USCG Approved portable handheld fire extinguishers in each hull amidships (Size AIIBCI) and main cabin (Size AIIBCII).
- 2. Put aboard at least three unexpired USCG approved day/night visual distress signals or other type USCG Approved system that satisfies the requirement (certain battery powered beacons are now approved).

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- 3. Stern running light is inoperative; service as necessary to restore its normal function.
- 4. Tricolor and anchoring light function was not verifiable in bright midday sunlight; prove function of both.
- 5. AC generator exhaust hose is missing tie-down causing it to strain overboard discharge fitting in sail locker; replace missing tie-down to relieve strain on discharge fitting.
- 6. LPG water heater installed inside stbd head enclosure is non-compliant with ABYC A-1 safety standard that provides guidance for installation of marine LPG systems; remove from service.
- 7. Install a pressure gauge on the propane system as required by ABYC A-1: 1.5.2 Each system shall be fitted with a pressure gauge. The gauge shall read the cylinder pressure side of the pressure regulator. NOTE: The purpose of the gauge is to provide a quick and easy way to test the system for leakage
- 8. Perform leakage test on LPG system after installation of pressure gauge and service if necessary (excerpt from ABYC A-1: With the appliance valves off, open the cylinder supply valve. Close the cylinder supply valve. Observe the pressure gauge reading. The pressure indicated should remain constant for not less than three minutes. If any leakage is indicated by a drop in pressure, check the entire system with a leak detection fluid or detergent solution to locate the leak. Test solutions shall be non-corrosive and non-toxic. Repairs shall be made before retesting and operating the system.)
- 9. 120 volt shore power inlet fitting shows evidence it has been overheated; replace inlet fitting, inspect attached cabling for damage and repair or replace if necessary.
- 10. Install at least one CO/smoke alarm in main cabin area.

(Also see Summary Remarks and Notes section at end of survey)

This vessel was manufactured prior to enactment of some of the USCG 33CFR requirements and NFPA and ABYC standards and recommendations in effect today. This survey addresses those items thought to be necessary for safety but does not suggest complete compliance with current regulations or standards and recommendations.

INTENDED USE: recreational

SUITABLE FOR INTENDED USE: yes (upon completion of recommendations cited above)

NAVIGATIONAL LIMITS: warm coastal waters of the USA & Caribbean Islands

For regular use in excess of 12 miles offshore suggest carrying Epirb and offshore type lifejackets

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VALUATION

Admiral Yachts is no longer in business but the model lives on under the name Celtic. Examination of Celtic listings indicates they are virtually identical to their predecessor.

Subject vessel was found to be in overall <u>above average condition</u>. Recent sales history and current listings found on <u>July 22, 2017</u> to use as comparison make a market approach a reliable means for establishing its value. Based upon analysis of the data below it is the opinion of the undersigned the following values should apply:

Current value: \$xxxxxx Replacement cost: \$475,000 (estimated)

APPROVAL

This survey may be used for valuation, insurance or mortgage requirements. This survey checks for compliance with U.S. Coast Guard regulations and American Boat and Yacht Council, Inc. Recommended Standards and Practices. In addition, the general structural condition of the vessel and suitability for its intended service will be examined. This survey cannot check for latent defects which could not readily be discovered by inspection without removal of machinery, tanks, sheathing, joiner work, upholstery, bulkheads, ceiling, fascia or other fixed material, or disassembly of machinery, plumbing, wiring or other parts components or systems.

The undersigned has conducted this survey and issued this report for the sole use of the specified requesting party for an agreed fee based upon the intended use of the report; accordingly, others are not to use this report and not rely upon the contents of this report without payment to the Company of an additional agreed fee based upon the reevaluation of the same factors. The Company shall have no liability for property loss damages, and no liability for punitive damages all of which shall be deemed to have knowingly and voluntarily waived upon use of this report. In the event of dissatisfaction with the conduct of the survey, with errors contained in the report, or by omission of information, the sole and maximum remedy shall be limited to the amount of fee actually received for this report which shall be refunded regardless of the number of claims or suits, regardless of whether under theory of tort, contract, warranty, products, outrage or otherwise.

This survey contains opinions and observations based on my skill, experience and training as a marine surveyor and consultant. Under no circumstances shall the report be understood to constitute a representation, guarantee, or warranty expressed or implied of any kind as the condition or soundness

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for the subject vessel, its hull, engines, machinery, equipment or system or any appurtenances thereof, or the cost of effecting any repairs or modifications. The report of survey is not valid until the fee for the survey is paid in full.

Attorney fees; costs: In any litigation arising out of the contract, the prevailing party shall be entitled to recover reasonable attorney's fees and costs.

William K. Gladding, AMS® #810 Society of Accredited Marine Surveyors Gladding Marine Surveying and Consulting, LLC

SCOPE OF SURVEY

The vessel was inspected in and out of the water without making removals or opening parts normally concealed and without making borings to ascertain thickness or condition of structural members. As a result, some areas behind cabinetry and under decks were not reached. Fixtures and appliances were powered up and exercised where indicated. Locker doors and drawers were worked and examined for proper function. Potential leak sources such as portlights and deck hatches were examined for evidence of water stains or other indications of leakage. The hull exterior was inspected visually and sounded with a mallet to locate any voids, delaminating or cracking. The underwater gear and other fittings were inspected and checked for indications of damage, abuse or excessive wear. The vessel was attended during a trial run during which various readings regarding the vessel performance were monitored and systems aboard were observed while functioning.

Test equipment that may be referenced in the report:

- Tramex Skipper or GE Aquant moisture meter
- Flir® One Android infrared camera
- Ideal Suretest AC electrical test meter
- AC electric three light plug in tester

- Check-Line non-contact digital tachometer
- Multi-meter electrical tester
- Assorted hammers and measuring devices

VESSEL GENERAL DESCRIPTIONS

Exterior arrangement – catamaran sailing vessel noted the following:

- <u>Hulls</u> twin hulls with fin keels, fin rudders and round bilges; stems are nearly plumb and hull sides straight up and down; sheer is straight and slopes downward from bow to stern with reverse rake at stern; sugar scoop transoms contain integral hollow swim platforms
- <u>Decks and superstructure</u> flush main deck from bow to stern set back from bows and sterns; space at bow is filled with trampoline webbing aft space is open providing space to deploy and recover tender from stern davits; superstructure consists of main cabin that is part of deck molding with ample space around all of its sides; cockpit is recessed aft of main cabin and has composite shade resting on stainless supports

Sailing rigging – basic elements as follows:

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- Rig type fractional sloop B&R type
- <u>Keel</u> integral to each hull
- Spars all components are aluminum:
 - o Cross beam

o Boom

Deck stepped mast

- Rigid vang
- Chain plates (baby stay & shrouds) polished stainless plates bolted to hull
- Standing rigging 1 x 19 Dyform stainless wire with swaged terminals
- Running rigging double braided synthetic
- Sails:
 - Rigged screecher, jib, storm jib
 & main

- o Bagged spinnaker
- \circ Laid out -n/a

Interior arrangement – single level cabins in each hull, raised deck between in main cabin noted the following:

- <u>Staterooms</u> one at each end of port hull and one aft in stbd hull
- Heads one in each hull
- Galley main cabin port side

- Dinette main cabin stbd side
- Saloon main cabin
- <u>Helm</u> stbd side of cockpit

Structural elements

- <u>Hull skin material and type cosmetic finish</u> end grain balsa cored molded fiberglass gelcoat cosmetic finish
- <u>Hull grid system layout and materials</u> molded fiberglass liners and plywood ring bulkheads
- <u>Hull deck joint</u> hull top and bottom appears to be butted then solidly fiberglassed
- <u>Continuous transverse bulkheads locations and materials</u> fiberglassed plywood at forward end of each hull, ring and coffer dam types at various intervals in remainder of hull
- <u>Decks and superstructure materials and type cosmetic finish</u> solid and end grain balsa cored molded fiberglass gelcoat cosmetic finish

SURVEY FINDINGS

UPGRADES/REBUILDS

Including but not limited to the following:

- Keels extended providing better support from interior structural supports
- Rudder profiles modified for better performance
- Hulls extended

- Baby stay added to mast
- Lifepo4 battery bank installed (about two years ago)

TRIAL RUN

- <u>Location</u> St. Johns River between Mayport Naval Station and ICW
- Conditions relatively calm other than wakes from other traffic, winds relatively light
- <u>Duration</u> approximately two hours
- <u>Number of passengers</u> four

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- Tanks levels:
 - o Fuel partially filled
 - <u>Water</u> nearly empty
- o <u>Waste</u> partially filled
- o Gray water n/a
- <u>Hull performance</u> vessel performed well without vibration, leakage or other signs of distress. Vessel makes about 5 to 6 knots with one engine as high as 9 to 10 with both at wide open throttle. Confined space, fast current and other vessel traffic did not permit analysis of sailing performance
- Engine performance:
 - Wide open throttle rpms port (2,900), stbd (2,870)
 - o Temperatures and pressures remained normal at all operating speeds
- AC generator performance:
 - Voltage and frequency normal (based upon onboard instrumentation)
 - Loads applied all air-conditioners
- <u>Comments</u> no unusual conditions noted

HULL ABOVE WATERLINE AND RELATED

Structural elements

Condition: above average

Condition of structural elements such as stringers, transverse framing, bulkheads, partitions and other similar type hull supports based upon visual inspection to insure they are maintaining their proper shape and remain securely attached, tap tested to insure they are not delaminated or deteriorated and in some cases examined using a moisture meter

Topsides

Structural condition: above average

Structural assessment based upon visual examination of hull's shape for damage, distortions, sagging, hogging or other signs structure is failing or is not adequately supported; moisture testing to locate areas where abnormal readings may indicate deterioration of laminates or cores; and tap testing areas that are suspect as a result of abnormal indications from visual inspection and readings from moisture meter

Cosmetic condition: above average

Cosmetic condition of paint, gelcoat and varnish based upon surveyor's opinion of appearance compared to similar type vessels considering factors such as gloss, extent of oxidation, flaking, discoloration, wear and tear or other factors

Condition other features: above average

- Guards none
- Swim platform integral hollow
- Permanently installed means for reboarding folding stainless ladder port hull

Deck drain systems

Primary drainage system: direct overboard

Other drainage systems: scuppers Condition: above average

Weather decks with in-hull drain systems: cockpit

The undersigned has witnessed several sinking and flooding events due to clogged deck drains backing up rain water on deck then flooding to hull interior. In order to prevent this type of event from occurring deck drain fittings and piping should be maintained leak free, kept clean and free of debris and hatch seals maintained to prevent water from leaking to hull interior or accumulating on weather decks and spilling to hull interior.

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Decks & superstructure

Structural condition: above average

Structural assessment based upon visual examination of hull's shape for damage, distortions, sagging or other signs structure is failing or is not adequately supported; moisture testing to locate areas where abnormal readings may indicate deterioration of laminates or cores; and tap testing areas that are suspect as a result of abnormal indications from visual inspection and readings from moisture meter

Cosmetic condition: above average

Cosmetic condition of paint, gelcoat and varnish based upon surveyor's opinion of appearance compared to similar type vessels considering factors such as gloss, extent of oxidation, flaking, discoloration, wear and tear or other factors

Exterior soft goods

Condition/appearance: <u>average or above average</u> Wear & tear: <u>light to moderate</u> Serviceable: <u>ves</u> (except as noted in summary remarks & notes)

Location & type (installed at time of survey):

- Bow trampolines (vinyl)
- Deck hatch covers (canvass)
- Sail UV-strips (canvass)
- Main cabin window shades (vinyl screen)

- Cockpit enclosure & cover (canvass & Eisenglass)
- Equipment covers (canvass)
- Cabin boom shade (canvass)
- Cockpit cushions (canvass)

Exterior hardware

Condition/appearance: <u>above average</u> Anchoring & bedding: <u>appeared adequate</u> Location & type:

- Bow, amidships & aft safety rails (welded stainless)
- Main deck safety rail (tapered stainless stanchions & wire lifelines)
- Hand rails (welded stainless)

- Pilothouse roof ladder/seat (welded stainless & plastic tread)
- Helm seat (welded stainless)
- Pilothouse support legs (stainless)

Tie-up gear

Condition/appearance: <u>above average</u> Anchoring & bedding: <u>appeared adequate</u> Location & type:

- Deck edge (6 x stainless fixed mooring cleats)
- Aft deck centerline (single bollard/fair lead)
- Swim platforms (2 x stainless fixed mooring cleats)

Rigging sailing

Inspection type – <u>deck level unless noted otherwise</u>

Overall condition – above average

Rigging brand – unknown

Age of rigging as reported by vessel owner – eight years

Descriptions and/or comments:

• Keel – secure without stress cracks at interior or exterior

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- Mast and spars standing in column without dents, gouges or other signs of abuse
- Mast support:
 - Step solid
 - o Deck solid

- <u>Chain plates</u> securely attached without significant corrosion
- Hardware & fittings jammers, fair leads & other serviceable
- <u>Standing rigging</u> clean without significant corrosion, cracks, broken strands or other evidence of damage or abuse
- Running rigging serviceable without significant wear and tear
- <u>Furling systems</u>:
 - o Jib Harken® MKIV 2

- Main Harken® Cruising 2
- Winches all Harken® self-tailing two speed sizes as follows:
 - o Mast (2 x 32)

o Cockpit aft each side (44)

- o Helm console (44 DC electric)
- <u>Sail condition</u> all appeared serviceable without significant wear

Anchoring gear

Condition/appearance: <u>above average</u> Function: <u>appeared serviceable</u> Locations/descriptions:

- Anchor pulpit cross beam supports chutes across front and aft near bridge deck
- $\underline{\text{Chute}(s)} 2 \text{ x aluminum with plastic rollers}$

Glazing materials

Condition/appearance: <u>above average</u> Gaskets and seals: <u>appeared serviceable</u> Location & type:

• Main cabin fixed windows (frameless plastic)

Exterior hatches, portlights and doors

Condition/appearance: <u>above average</u> Function: <u>normal</u> Gaskets and seals: <u>appeared serviceable</u> Location & type:

- Secondary egress (escape) main deck
- Companionway/main entrance sliding door (aluminum & glass)
- Hull & main cabin sides portlights (aluminum & plastic)
- Main deck & main cabin top deck hatches (aluminum & plastic)
- Foredeck & cockpit locker lids (molded fiberglass)
- Cockpit shade top deadlight (frameless plastic)

HULL BELOW WATERLINE AND RELATED

Hull below the waterline

Structural condition: above average

Structural assessment based upon visual examination of hull's shape for damage, distortions, sagging, hogging or other signs structure is failing or is not adequately supported; tap testing for purposes of comparing variations in tap sound indicative of previous repairs, delaminating, moisture intrusion or blistering; and moisture testing if hull is sufficiently dried and does not have coatings that interfere with moisture meter function to locate areas where abnormal readings may indicate deterioration of laminates or cores

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Cosmetic condition: above average

Cosmetic condition based upon surveyor's opinion of hull appearance compared to similar type vessels considering factors such as paint build-up, smoothness of hull, blistering and other features that affect its appearance

Rudders & linkages

Condition/appearance: above average Function: normal Damage, abuse or excessive wear: none noted

- Rudder description composite fin type hollow stainless stock
- Thru-hull seal n/a (above waterline)
- <u>Supports</u> rudder port is heavily reinforced in hull and platform above
- Linkages stainless tillers & tie-bar

- Steering components stainless wire & pulleys
- Emergency tiller stbd lazarette

Thru-hulls, seacocks, transducers

Condition/appearance: average or better Function: normal Damage, abuse or excessive wear: none noted

- Underwater Threaded bronze and Marelon® fitted with ¼ turn valves with stainless clamps on hoses connections at the following bilge locations:
 - o Port hull forward stateroom AC generator inlet & toilet overboard discharge
 - o Port hull companionway aft end toilet inlet, deck wash inlet, watermaker inlet & airconditioner inlet
 - o Port hull engine compartment $-2 \times \text{unused (capped)}$
 - Stbd hull head vanity stbd toilet overboard discharge
 - Stbd hull companionway aft end unused (capped)
 - Aft stateroom toilet inlet & 2 x air-conditioner inlets
- Topsides threaded plastic
- Transducers forward end of each hull

ACCOMMODATIONS, HOUSEHOLD SYSTEMS AND COMFORT SYSTEMS

Interior spaces

Bulkheads, partitions and cabinetry found to be solid and in good condition, locker and cabinet doors and drawers found to be in above average condition and working order. Interior décor was found to be in overall above average condition with less than average wear and tear descriptions as follows:

- <u>Doors</u> hinged natural wood
- <u>Decks</u> molded fiberglass natural wood inserts, main cabin fully natural wood
- <u>Cabinetry</u> molded fiberglass
- Bulkheads and partitions molded & textured fiberglass
- Ceilings molded & textured fiberglass

- Counters molded composite
- <u>Cushions</u> cloth skins
- Natural ventilation opening appliances
- Powered ventilation DC circulating
- Fixtures and appliances appeared serviceable

Entertainment equipment

Condition/appearance: average or better Function: appeared serviceable Locations/descriptions:

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- Aft stateroom TV (Boss drop down ceiling mounted)
- Main cabin:
 - o TV (2 x Majestic)
 - o Stereo (Kenwood KMR-M315BT)

Galley equipment

Condition/appearance: <u>above average</u> Function: <u>normal</u> Locations/descriptions – Located in galley except as noted:

- Range (Eno three burner lpg)
- Oven (Eno)
- Sink basin (double stainless)
- Refrigerator (Isotherm)

- Freezer (Isotherm)
- Blender (generic)
- Stern rail (lpg BBQ grill)

Sanitary system

Condition/appearance: <u>above average</u> Function: <u>normal</u> Locations/descriptions:

- Quantity two
- <u>Manufacturer</u> not labeled (similar to Jabsco)
- Type 12 volt macerating marine toilet

Comments:

Port toilet features only direct overboard discharge

- Vented loops (if required) yes
- <u>Y-valves (direct overboard discharge)</u> stbd only

Air-conditioning

Condition/appearance: <u>above average</u> Function: <u>normal (except as noted in summary remarks & notes)</u>

Locations/descriptions:

- Quantity three
- <u>Manufacturer</u> Cruisair
- <u>Type</u> self-contained heat pump
- <u>Controls</u> digital
- <u>Equipment</u> aft staterooms & main cabin

- <u>Cooling pump</u> port hull bilge (1) & stbd hull bilge (2) 230 volt centrifugal
- <u>Test performed</u> all units operated on cool program (ambient temperature too high to test heat program)

TANKS, PUMPS, PIPING AND RELATED

(Capacities listed in this section are based upon published specifications for this model unless stated otherwise)

Fuel

Found the following to be in <u>above average condition</u> without significant corrosion or evidence of leakage to level filled where accessible for inspection:

- <u>Tanks</u> 100 gallons capacity contained in one aluminum tank secured in forward bridge deck locker stbd side
- Fills main cabin forward end stbd side
- Vents hull side
- Plumbing materials flexible fuel hose

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- Shut-off valves tank outlets
- <u>Filters</u> each engine & AC generator compartment (Racor R12S)

Level gauges – main electrical panel

Potable water

Found the following to be in above average condition without significant corrosion or evidence of leakage to level filled where accessible for inspection:

- Tanks 100 gallons capacity contained in one aluminum tank secured in forward bridge deck locker port side
- Fills main cabin forward end port side
- Vents hull side
- <u>Plumbing materials</u> plastic tubing
- Shut-off valves not found
- Filters port hull forward inboard locker
- Pressure pump port hull forward inboard locker (Shurflo 4008-101-E65)

- Accumulator tank port hull forward inboard locker (Cleghorn)
- Water heater port hull engine room (Isotemp Basic 230 volt & engine heated)
- Dock water inlet transom port hull
- Level gauges main electrical panel

Waste

Found the following to be in above average condition without evidence of leakage to level filled where accessible for inspection:

- Tanks 35 gallons capacity contained in one fiberglass tank secured in stbd hull forepeak
- Deck fitting foredeck stbd hull
- <u>Vents</u> hull side
- Plumbing materials PVC hose
- Y-valves stbd hull head vanity

- Overboard valve n/a
- Discharge pump n/a
- Vented loop (if required) n/a
- Treatment device none
- Level gauges none

LPG/CNG system

Condition/appearance: above average Function: normal Damage or abuse: none noted

- Storage locker cockpit aft seat stbd side
- Tank quantity, material & capacity 2 x 16 lbs lpg capacity fiberglass
- Solenoid valve, regulator, pressure gauge and control no pressure gauge
- Leakage test (should hold steady pressure for three minutes) unable to test

ENGINES, AND ENGINE AND VESSEL CONTROLS

Engines

Condition/appearance: above average Function: normal Damage or abuse: none noted

- Location aft end of each hull
- Description three cylinders naturally aspirated diesels

- Power transmission Yanmar Saildrive system
- <u>Cooling system</u> closed loop freshwater with raw water cooled heat exchanger

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- Mounting:
 - o Foundations & beds molded fiberglass liner
 - Mounts adjustable vibration isolator type
- Cleanliness above average
- Fluid levels and condition based upon visual inspection:

- Engine oil full (normal)
- Engine coolant full (normal)
- Transmission oil full (normal)
- Accessibility good all sides
- Propeller three bladed bronze feathering type (16" diameter Flexofold)

Exhaust systems

Condition/appearance: above average Function: normal Damage or abuse: none noted

- Exhaust manifolds freshwater cooled cast iron
- Risers raw water cooled stainless
- Exhaust fittings n/a
- Muffler inline plastic (Vetus® or similar)

- Exhaust outlet hull sides aft (composite thru-hull)
- Straight runs black rubber hose
- Connecting hoses black rubber hose
- Hose connection clamps single extra heavy duty stainless

Engine ventilation

Condition/appearance: average or better Function: normal Location & type:

• Natural – each transom x 2

Powered – not found

Engine controls

Condition/appearance: <u>above average</u> Function/ease of operation: <u>normal</u>

- Manufacturer/model Yanmar
- Description single lever type sleeved cable manual system
- Locations helm console
- Neutral safety interlock (prevents starting in gear) - n/a

Engine instrumentation

Condition/appearance: above average Function: normal (except as noted in summary remarks & notes)

- Manufacturer Yanmar
- Type analog electric rpms & digital engine hours
- Locations helm console

Alarms - audible

Steering

Condition/appearance: above average Function/ease of operation: normal

- Manufacturer/model Lewmar
- <u>Description</u> wheel type cable over pulley manual system
- Locations helm console

• Reservoir – n/a

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EQUIPMENT

Hydraulics

Condition/appearance: above average Function: as noted in summary remarks & notes

- Location port hull lazarette
- <u>Manufacturer/model</u> Garmin autopilot actuator model B1
- Controls Garmin autopilot

- Power source 12 volt DC
- Reservoir adjacent to pump

Pumps dewatering and utility

Condition/appearance: <u>above average</u> Function: <u>normal</u> Bilge location, type & description:

- Engine rooms dewatering (Rule-Mate 750 gph)
- Each hull amidships dewatering (Rule-Mate 500 gph)
- Each hull amidships shower sump (Whale Gulper 220)
- AC generator compartment dewatering (Rule-Mate 500 gph)
- Sail locker forward end port hull dewatering (pad mounted manual diaphragm type)

Rigging utility

Condition/appearance: <u>above average</u> Anchoring & bedding: <u>appeared serviceable</u> Type, location & description:

• Tender davits – transom mounted (molded fiberglass rigged with manual tackles)

Windlass

Condition/appearance: <u>above average</u> Function: <u>normal</u> Descriptions (windlass located at foredeck unless noted otherwise):

- Manufacturer/model Lofrans Tigres
- <u>Type</u> 12 volt 1200 watts horizontal with wildcat & warping head
- Control locations foredeck & helm
- <u>Service disconnect</u> battery compartment

- Overcurrent protection breaker disconnect
- <u>Test performed</u> windlass operated from helm & foredeck controls

Accessories

Condition/appearance: <u>above average</u> Function: <u>appeared serviceable</u> Description & location:

- Two underwater lights & one camera (hull bottoms at stern)
- Two overhead cameras (mast beneath spreaders)
- Spectra Watermaker (port hull forward inboard locker)
- Haier clothes washer/dryer (port hull inboard side)
- Portable dive compressor (foredeck centerline locker)

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ELECTRICAL SYSTEMS

Galvanic corrosion protection

Condition/appearance: above average Serviceable: yes

Descriptions & locations:

- Anodes (zinc unless noted otherwise) Saildrives & propellers
- Bonding system n/a

- Galvanic isolators/Isolation transformers
 - main panel electrical cabinet

AC electrical system

Condition/appearance: above average Function: normal

Locations & descriptions of significant components and features:

- Voltage 230 volt
- Inlet types & locations 230 volt 50 Hz & 120 volt 60 Hz
- Inlet circuit protection main panel electrical cabinet (breakers)
- Main panel:
 - Location aft end of main cabin port side
 - o Instrumentation volt & amp meters
 - Source selector switches toggle with sliding interlock
 - o Reverse polarity indicator n/a

- Tests and examinations:
 - Shoreline output not tested
 - Generator output normal (according to onboard instruments)
 - Inverter output not tested
 - Condition of shore cord above average
 - o Condition of shore cord inlet -230 volt (above average) 120 volt (as noted in summary remarks & notes)

Comments:

Additional safety features - Vessel AC electrical diagram indicates ELCI type breaker installed between inverter AC output and main panel buss providing whole boat ground fault protection and electrical AC green ground is connected to DC negative buss

DC electrical system

Condition/appearance: above average Function: normal Locations & descriptions of significant components:

- Voltage 12
- Panel locations main cabin aft end stbd
- Panel instrumentation volt & amp meters

- Branch circuit protection breakers
- Primary circuit protection breakers & fuses

Alternating current generators

Condition/appearance: above average Function: normal Damage or abuse: none noted Description:

• Engine type – single cylinder naturally aspirated diesel

- AC generator mounting close coupled
- <u>Location</u> port hull forward berth

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- Circuit protection:
 - o Generator yes
 - Main panel yes
- Accessories drip pan

- Fuel, exhaust, cooling water and electrical connections serviceable
- <u>Vented loop (may be necessary for deep draft installation)</u> yes

Battery charging devices

Condition/appearance: <u>above average</u> Function: <u>normal</u> Damage or abuse: <u>none noted</u> Locations/descriptions:

- <u>AC electric</u> see inverter section that follows
- Alternators main engines
- <u>Renewable</u> 8 x solar panels, 2 x Air Breeze wind generators & Ferris water generator
- <u>Charger controllers</u> main electrical panel face & cabinet interior

Inverters

Condition/appearance: <u>above average</u> Function: <u>normal</u> Locations/descriptions:

- <u>Location, make & model</u> Victron Energy 12V 3000VA 120 amp
- Output AC/3000 watts @ 230 volts; DC/120 amps @ 12 volts
- <u>Disconnect location</u> main battery switch
- Overcurrent protection location & type battery compartment (fuse)
- <u>Installation indicated at man panel?</u> not found

Storage batteries

Condition/appearance: above average Function: normal Damage or abuse: none noted

- <u>Batteries</u> all batteries are maintenance free types noted the following:
 - o Port engine (670 cranking amps flooded lead acid)
 - o Stbd engine (630 cranking amps flooded lead acid)
 - o AC generator (600 cranking amps flooded lead acid)
 - o House (800 amp hours Lifepo4)
- <u>Disconnects</u> adjacent to each

Battery disconnects or primary circuit protection for high amperage DC systems such as engine & AC generator cranking, windlasses, capstans, bow & stern thrusters and davits should be toggled off when not in use to prevent them from energizing unexpectedly due to failed components or short circuits that can lead to equipment damage or fire while vessel is not in use or unattended

Comments:

• Owner installed Lifepo4 house battery system appears well engineered and competently installed. Suggest documenting details of installation (diagrams) and materials (equipment suppliers) for future reference to aid in service and maintenance of system when needed.

ELECTRONICS AND NAVIGATION EQUIPMENT

Condition/appearance: <u>above average</u> Function: <u>normal</u>

• Cockpit:

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- Magnetic compass (Plastimo Offshore 105)
- Chart plotter, sounder & radar (Raymarine Hybrid Touch 12" display)
- Multi data displays (Raymarine)
- Navigation station:
 - o SSB (Icom IC-M802)
 - o VHF (Icom IC-M504)
 - Sonar control (Interphase)
- Garmin autopilot actuator (port lazarette)
- Raymarine autopilot actuator (stbd lazarette)

- Autopilot (Raymarine)
- o Autopilot (Garmin GHC10)
- Sonar (Interphase Forward Looking)
- VHF (Icom Command MICII)
- o AIS receiver (Icom)
- o Pactor modem

SAFETY EQUIPMENT

(Items in this section should be considered compliant with applicable sections of Code of Federal Regulations and serviceable unless noted otherwise)

Fire safety equipment

- Fixed none installed
- Fixed fire system manual activator n/a
- Portable handheld USCG Approved Sizes located as follows none USCG Approved

Comments:

- ABYC recommends compliance with this standard (A-4) for all boats, associated equipment, and systems manufactured after July 31, 2009:
 - 4.5.1 Fire extinguishing equipment (portable or fixed) shall be U.S. Coast Guard approved, and listed or approved by a recognized independent testing laboratory. The installation and use of such fire extinguishing equipment shall be in accordance with the manufacturer's instructions.
 - 4.5.2 Inboard and stern-drive boats with engine compartments shall have either:
 - o 4.5.2.1 a fixed fire extinguishing system installed to protect the engine compartment (see A-4.7), or
 - 4.5.2.2 a single suitably sized clean agent portable fire extinguisher provided and installed in proximity to a
 port to permit discharge directly into the engine compartment without opening the primary access. (See
 Table IV for determination of the minimum portable clean agent fire extinguisher size for this usage).

Gas detection systems

- CO not found
- Smoke yes

• \underline{LPG} – yes

Emergency bilge pumps and high water alarms

- Dewatering pumps vessel is equipped with multiple pumps
- <u>Audible alarms</u> yes

Signaling devices

- Flares none USCG Approved
- <u>Hull mounted sound</u> yes
- Handheld sound not found

Comments:

• Epirb UIN: CB29D41930D34D1 South Africa

• <u>Epirb</u> – McMurdo SmartFind (battery expired 02/2015)

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Navigation lights

- <u>Side</u> cross beam support
- <u>Steaming</u> front of mast
- Stern tender davit

- Anchoring top of mast
- <u>Tricolor</u> top of mast

Flotation devices

- Personal & throwable USCG Approved devices located as follows:
 - o Lifejackets (6 x Solas adult & 2 x inflatable)
 - o Throwables (2 x horseshoe type)
- <u>Liferafts</u> aft deck (Arimar 6 Persons [due for service])

Ground tackle

Condition/appearance: <u>average or better</u> Function: <u>appeared adequate for intended use</u> Locations/descriptions:

- Primary anchor Rocna 33 kg all chain rode (at ready)
- <u>Back-up anchor</u> Fortress, chain lead & laid nylon rode (stowed in anchor locker)

Comments:

• Primary anchor chain has significant corrosion but appeared serviceable

Additional required (non-safety)

- Pollution placards (Vessels 26 feet and over with a machinery compartment) not found
- Marpol Trash Placard (Vessels 26 feet and over) not found
- Written trash disposal plan (Vessels 40 feet and over) not found
- Navigation rules (Vessels 39.4 feet and over) not found
- Vessel identification locations:
 - HIN bridge deck aft end stbd side
 & crossmember backing plates
 - o Documentation # transom

- o Registration # transom
- Name hull sides at bow

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SUMMARY REMARKS AND NOTES

Items on the following lists are grouped in several categories according to the source of their advice. Items in bold face are also listed in the Recommendations section at the beginning of this report and should be addressed on a priority basis. The remaining items on the lists that follow will likely not interfere with the safe and reliable function of the vessel but may improve its utility and/or convenience.

REGULATORY AND/OR STATUTORY DEFICIENCIES

Items on this list may not affect vessel safety but if ignored may result in fines and/or penalties:

- 1. Install USCG Approved portable handheld fire extinguishers in each hull amidships (Size AIIBCI) and main cabin (Size AIIBCII).
- 2. Put aboard at least three unexpired USCG approved day/night visual distress signals or other type USCG Approved system that satisfies the requirement (certain battery powered beacons are now approved).
- 3. Stern running light is inoperative; service as necessary to restore its normal function.
- 4. Tricolor and anchoring light function was not verifiable in bright midday sunlight; prove function of both.
- 5. Put aboard the following as required by Code of Federal Regulations:
 - a. Oil Discharge Placard
 - b. Marpol Trash Placard
 - c. Written Trash Disposal Plan (http://www.gladdingmarinesurvey.com/pdf/uscgwaste.pdf)
 - d. Copy of Navigation Rules

STANDARDS DEFICIENCIES

ABYC Standards and Technical Information Reports are advisory only; their use is entirely voluntary. They are guides to achieving a specific level of design or performance, and are not intended to preclude attainment of desired results by other means:

- 6. AC generator exhaust hose is missing tie-down causing it to strain overboard discharge fitting in sail locker; replace missing tie-down to relieve strain on discharge fitting.
- 7. LPG water heater installed inside stbd head enclosure is non-compliant with ABYC A-1 safety standard that provides guidance for installation of marine LPG systems; remove from service.
- 8. Install a pressure gauge on the propane system as required by ABYC A-1: 1.5.2 Each system shall be fitted with a pressure gauge. The gauge shall read the cylinder pressure side of the pressure regulator. NOTE: The purpose of the gauge is to provide a quick and easy way to test the system for leakage
- 9. Perform leakage test on LPG system after installation of pressure gauge and service if necessary (excerpt from ABYC A-1: With the appliance valves off, open the cylinder supply valve. Close the cylinder supply valve. Observe the pressure gauge reading. The pressure indicated should remain constant for not less than three minutes. If any leakage is indicated by a drop in pressure, check the entire system with a leak detection fluid or detergent solution to locate the leak. Test solutions shall be non-corrosive and non-toxic. Repairs shall be made before retesting and operating the system.)
- 10. 120 volt shore power inlet fitting shows evidence it has been overheated; replace inlet fitting, inspect attached cabling for damage and repair or replace if necessary.
- 11. Install at least one CO/smoke alarm in main cabin area.

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SUGGESTED REPAIRS AND/OR CHANGES

Items based upon surveyor's observations or experience that may improve the vessel's reliability, utility or longevity:

- 12. Cutwater is missing from stem on stbd hull; replace with new.
- 13. Visibility is poor through cockpit enclosure clear panels; clean or replace with new to insure clear visibility while underway.
- 14. Screecher halyard cover is frayed at upper end where it attaches to mast; cut away frayed section and reattach to mast if halyard has sufficient length.
- 15. Foredeck centerline locker hatch lid latches are missing parts; replace latches with new to insure hatches remain securely closed when shut.
- 16. Battery and knob is missing from range igniter; replace with new.
- 17. Air-conditioners in main cabin and stbd hull would not cool likely caused by poor raw water cooling flow; service both as necessary to restore their normal function.
- 18. Fuel tank level gauge is inoperative; service as necessary to restore its normal function.
- 19. Main engine dashboard RPM meters are not functioning properly; service as necessary to restore their normal function.
- 20. Anchor windlass chain counter functions intermittently; service or replace as necessary to insure its reliable function.
- 21. <u>Main engines turned 600 to 700 rpms less than their rated maximum 3,600 rpms at wide open throttle; consult Yanmar specialist to determine optimum rpms at wide open throttle and adjust propeller pitch if necessary to achieve that engine operating speed.</u>

(End of report photo pages to follow)

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PHOTOS











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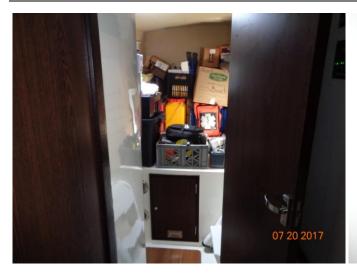




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