



## VAGABOND

105' (32.00m) 1991 Windship Windship 105  
Savannah Georgia United States



### OVERVIEW

**\$1,250,000**

Manufacturer:	Windship	Hull Material:	Fiberglass
Engines:	2 Caterpillar	Cruise Speed:	8 Knots
Engine Model:	C7	Max Speed:	11 Knots
Engine HP:	250.01	Cabins/Heads:	3 / 3
Beam:	25' 5"	Fuel Type:	Diesel
Max Draft:	7' 0"	Fuel:	2770 G (10485.59 L)
Water:	905 G (3425.8 L)		



# FRASER

## Data Sheet

Category: Sloop	Crew Cabins: 2	Gross Tonnage: 147
Condition: Used	Crew Sleeps: 4	Bow Thruster: Yes
Model Year: 1991	Maximum Speed: 11 Knots	Fuel Tank: 2770 gal (10485.59 liters)
Refit Year: 2023	Cruise Speed: 8 Knots	Fresh Water: 905 gal (3425.8 liters)
Beam: 25'5" (7.75m)	Range NM: 2000	Imported: No
Max Draft: 7' (2.13m)	Fuel Type: Diesel	Builder: Windship
LOA: 105' (32.00m)	Super Structure Material: Fiberglass	Interior Designer: Andrew Winch
Cabins: 3	Hull Material: Fiberglass	HIN/IMO: WHY123456788
Sleeps: 7	Air Conditioning: Yes	
Pullmans: 1		
Twin Berths: 1		
Double Berths: 1		
Queen Berths: 1		
Heads: 3		

## Engines/Generators

### Engine 1

Caterpillar  
C7  
Inboard  
250.01HP  
186.43KW  
Fuel: Diesel  
Hours: 3462  
Hours Date: 06-28-2023  
Year: 2010  
Location: Port

### Engine 2

Caterpillar  
C7  
Inboard  
250.01HP  
186.43KW  
Fuel: Diesel  
Hours: 3517  
Hours Date: 06-28-2023  
Year: 2010  
Location: Starboard

### Generator 1

Northern Lights  
Single-phase  
30KW  
Hours: 6905  
Hours Date: 06/28/2023

### Generator 2

Northern Lights  
Single-phase  
30KW  
Hours: 6975  
Hours Date: 06/28/2023

# FRASER

## Summary/Description

A Unique VALUE From the design brilliance of RON HOLLAND offering a world capable, shallow draft, twin diesel composite sailing yacht and built at the notable WINDSHIP yard in Tampa Florida. Exhaustively refitted over the years and most recently in 2021 and 2023. Commodious 3 stateroom owner aft

*"A Unique VALUE From the design brilliance of RON HOLLAND offering a world capable, shallow draft, twin diesel composite sailing yacht and built at the notable WINDSHIP yard in Tampa Florida. Exhaustively refitted over the years and most recently in 2021 and 2023. Commodious 3 stateroom owner aft layout with upper and lower saloons and huge galley. Massive, easily accessed engine room."*

## DETAILED SPECIFICATIONS

### MAIN CHARACTERISTICS

Name: VAGABOND

Type: Sailing Yacht

Builder: Windship Yachts

Year: 1991

Refit Year: 2011, 2016, 2017, 2018, 2021, 2023

Yacht Model: Custom Sloop

Construction Project Name: Windship 105

LOA: 32M 105'

Length CoR: 24M 78'9"

LWL: 25.6M 84'

Beam: 7.75M 25'5"

Draft: 2.13M 7'

Gross Tonnage: 147 GT

Displacement (Fully Loaded): 150 Tons

Hull Material: Fiberglass

Hull Configuration: Monohull

Superstructure: Fiberglass

Flag: Cayman Islands

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# FRASER

Exterior Designer: Ron Holland

Interior Designer: Andrew Winch

Main Engines: 2 x Caterpillar C7, 250HP each

Max Speed: 11 Knots

Cruising Speed: 8 Knots

Range: 2,000 nmi

Guest Accommodations: 6-7 Guests in 3 Staterooms

Crew Accommodations: 4 Crew in 2 Cabins

## NOTEWORTHY FEATURES AT A GLANCE

- RON HOLLAND DESIGN PEDIGREE
- SHALLOW DRAFT OF 7' WITH CENTERBOARD OFFSHORE STABILITY
- TWIN VINTAGE CAT C12 DIESELS PLUS 2 GENERATORS
- RAISED SALOON VISABILITY AND HIGE INTERIOR VOLUME
- COMPOSITE CONSTRUCTION FOR EASE OF MAINTENANCE
- RECENT REFITS - READY TO CRUISE

## ACCOMMODATIONS

For six or seven guests in three stateroom aft, all with en suite marble baths. The master is full width aft with full Jacuzzi bath/shower and marble vanity with his and her sinks. Separate toilet and bidet aft. The two guest cabins midship feature one double bed cabin to starboard and a twin bed cabin to port with a third Pullman bunk. Both guest cabins feature walk in, enclosed marble showers. The port cabin has a separate access for use as a powder room.

Coordinated and designed by Andrew Winch, both the layout and interior have been designed and decorated with ease of use and luxury as primary requisites. The general interior is based upon utilization of wood finishes employing solid woods of teak, cherry and various burls. Additional materials include marble, Corian, aromatic cedar, mirrors and stainless steel. Overhead is new 2023 Ultra.

## CAPACITIES

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Gross Tonnage: 146.98 GRT

Net Tonnage: 86.6 NRT

Displacement: 150 Tons

Fuel Capacity: 2770 Gallons 10,485 Liters

Fresh Water Capacity: 905 Gallons 3,425 Liters

Water Makers: 3120 GPD 11,810 Liters

Grey Water: 250 Gallons 946 Liters

Black Water: 100 Gallons 378 Liters

Headhunter Sewage Treatment: 50 GPD 189 Liters

## MAIN MACHINERY

Main Engines (NEW 2010): 2 x Caterpillar C7 250 HP

Both engines fully serviced summer 2021 with additional service January 2022

Engine Hours (June 2023): Port: 3,462 hours

Starboard: 3,517 hours

Engines Exhaust System: Replaced both port and starboard engine exhaust muffler boxes, 2021

Gear Boxes: Twin disc

Shafting: Carbon Fiber (30lb Each)

Rudders and Shafts serviced in summer 2023

Propellers (2010): (2) Hundested VP-hydraulic three bladed variable pitch props; 35.8 in diameter with hydraulic pitch control

Recalibrated pitch control boxes for Hundested VPPs, 2021

Visual inspection of props and added grease to nipples, 2021

Engine Ventilation: Hartzell 1.5hp intake and exhaust

## GENERATORS & ELECTRICITY

Output/Electricity: 12 and 24 volt DC system 120 volts and 240 volts AC system

Four AC inverters for a total of 14 KW

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Generators (NEW 2010): 2 x 30kw Northern Lights single phase equipped with Balmar 60 amp alternators

Replaced main breakers on both generators and secured better to prevent vibrating (2021)

Generator Hours (June 2023): Port: 6,905 hours

Starboard: 6,975 hours

Shore Power: 50 KW Atlas system with 100 amps single phase or three phase input for shore power

Batteries: Eight separate battery banks consisting of:

(48) 2V Rolls Royce batteries for the inverter system

(24) 2V Rolls Royce batteries for the hydraulic - autopilot system

(6) 12V Odyssey for the house system

(4) 12V Odyssey for 12 V and 24 V electronics system

(4) battery banks for main engines and generates with paralleling capability

All battery banks are charged by 3 x 100 amps battery chargers plus the four inverters.

UPS: Replaced batteries in UPS packs (2021)

## AUXILIARY MACHINERY

STEERING SYSTEM (2010) Cable and autopilot steering, (2) separate pumps hydraulic, emergency tiller

Removed and serviced both hydraulic steering rams, 2021

Added covers to steering cable over sheaths, 2021

Steering Stations: Twin starboard and port cockpit mechanical cable steering. Additional hydraulic quadrant powered by double redundant hydraulic motors. Autopilot control in the exterior consoles, in the cockpit, and in the pilothouse.

Bow Thruster: Richfield 400R retractable hydraulic drive, controlled from each steering station

Both proximity sensors for retracting and lifting bow thruster replaced 2021

Fuel Filtration: Each engine has its own Racor secondary filter plus a small centrifuge unit in the transfer system

All five fuel tanks onboard cleaned, 2021

All five Headhunter pressure level gauges for fuel replaced, 2021

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## FRESH WATER SYSTEM

Water Makers (2010): Sea Recovery Aqua Whisper with (2) membranes, 58 gal./hr.

Sea Recovery Aqua Whisper with (3) membranes, 72 gal./hr.

Serviced both and replaced end fittings and flushed with chemicals, 2021

Fresh Water Treatment: (2) pumps, 1 x 24V and 1 x 220V

Fresh Water Pressure: 60psi / 70psi

Hot & Cold Circulation Pump: Laing

Hot Water Boilers: 2 x 220v pumps

## BLACK & GREY WATER SYSTEM

Black & Grey Water Treatment: Headhunter Type 2 MSD blackwater treatment system

WC's (toilets/bidets): 5 x WCs, 1 x Bidet (Master Stateroom)

Sanitary Vacuum System: Headhunter 24v DC macerators

Grey Water Discharge Pumps: 3 x 220v pumps

AIR CONDITIONING (2018) 2 x Marine Air system with control boxes SMX II; 2 x 60,000 BTU

Interior fresh air system - 18,000 BTU; 15 air handling units

Clean fresh air vent in port cabin for circulation around the vessel, 2022

Replaced air handler in port guest cabin, 2022

Replaced entire cooling loop for AC system upgraded from CPVCP to copper tubing, 2022

Replaced circulating pumps for AC compressors, 2022

HYDRAULIC SYSTEM (2010) PTO from either generator for bow thruster, windlass and fire pump plus 24 volt hydraulic pumps for winches, furriers, centerboard hoist, swim platform and propeller pitch control.

There is a separate manual/electric system for backstay tensioners, boom vang and other five sailing adjustments. New solenoids fitted 2021.

## NAVIGATION & COMMUNICATION SYSTEMS

### NAVIGATION SYSTEMS

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Navigation Bridge: Furuno NavNet system and Nobeltec navigation software

Replaced all switches at helm stations (waterproof), 2021

Radar: Furuno Navnet with navigation charts; 72 Nm range

Furuno Navnet 36 nm range

Gyrocompass: Yes, with backup unit

Auto Pilot: Simrad AP25. 2 separate hydraulic autopilot pumps connected to the steering system

Depth Sounder: Yes, with backup unit

GPS: (2) for autopilot system; (1) for Furuno

AIS: Class B

Wind & Speed Indicators: B&G depth, wind indicator and their displays Hydra 2000 and 20/20 B&G system, indicators on deck - chart table, master cabin, crew mess, and captain's

Cabin. Wind sensor replaced, 2021

Weather Fax: Navnet Furuno

Ships Computer: Chart table, Maritron system for boat control with backup computer.

## COMMUNICATION SYSTEMS (2016)

VHF Radiotelephones: ICOM IC-M604 and IC-M504, both with outside controls

Portable VHF: (4) West Marine; (2) Motorola 20 channel radios intercom system

Telephone System: Panasonic KX-T7731

Shore/Cell/Sat phone line - 7 lines out

SAT Phone: Iridium handheld and Cobham linked to KVH sat

SSB: ICOM M802

## DECK MACHINERY & EQUIPMENT

Anchors: (2) Plow anchors, 300 and 350 pounds, repainted 2021

Anchor Windlass System: (2) Maxwell vertical windlass 4000 series recessed into anchor locker, fully serviced 2021

Anchor Chain and Rode: 90 m port; 110 m starboard. Color marked every 10 m. Checked and chain reversed 2021

Cranes / Davits: 1 spinnaker pole to launch tender

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Boarding: Swim ladder transom door, manual side boarding ladder; transom door opens with separate hydraulic system

Stern Boarding Gangway: Carbon fiber passerelle, manual

## SAFETY, SECURITY, & FIRE FIGHTING EQUIPMENT

CCTV: Pelco MX400 8 video controller system

Cameras: (8) located on aft deck, cockpit, engine room forepeak/bow thruster

Monitors: (8) located in master cabin, chart table, salon, crew mess, captain's cabin

Door Alarms: (3) located in main salon, master cabin, captain's cabin

Motion Sensors: (4) located on deck, salon, interior

Ship's Safe: (2) located in master cabin and captain's cabin, new 2021

Fixed Fire System: FM200 (Removed cylinder from vessel and hydrostat test, 2021)

Fire, Heat & Smoke Detectors: 12 total located in every cabin; (2) in galley, engine room, lazaret, forepeak

Fixed CO2 System: (1) located in engine room and aux room, serviced 2021

Portable CO2: (3) located in engine room, 4.5 kg, serviced May 2022

Fire Extinguishers: (12) located in each cabin, galley, salon, on deck, and laundry room  
Serviced fire extinguishers, May 2022

Seawater Fire Fighting Stations: (1) located deck locker forward starboard side, serviced 2021

Monoxide Detectors: (3) located in crew mess, crew cabin, captain's cabin, new 2022

Other: Replaced battery for fire alarm panel

Added cover to Fireboy switch by engine room

(1) fire blanket under galley sink, (1) fire blanket lounge

Life rafts: (2) Viking 6 person, serviced 2022

Lifejackets: (10) Serviced in 2021

Life Rings: (2) Ocean Safety

EPIRB: (1) Global Fix, serviced 2022

Flares: (1) bag (exp 2024), new 2021

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Medical Equipment: Medaire kit located in master cabin head; Medaire first responder kit located in captain's head; oxygen bottle and mask, new 2021

Other: Removed FM200 cylinder from vessel and hydrostat test, 2021

Serviced all Dan Buoy (x 2) Life safety equipment, May 2022

## ENTERTAINMENT, AUDIO/VISUAL AND IT SYSTEMS

Televisions: (5) Multisystem Samsung - New as of 2016 with DVD including a Blue-Ray by Samsung in master

Direct TV Sat System: Separate receivers in guest cabins, master stateroom, crew mess, crew cabins, salon

Stereos: (5) Yamaha RX365 including Ipod base in master cabin and salon (2016)

(3) Alpine car stereo CDA 105 in crew mess, crew cabin and captain's cabin (2010)

CD Players: (5) Blue-Ray units in master cabin, salon, and crew quarters (2016)

Central Ships Audio: Volume controls on salon music system in port and starboard guest cabins; surround system in salon; deck speakers in cockpit area, at both helm stations and foredeck controlled from salon

sound system (2010).

## DOMESTIC EQUIPMENT

### MAIN GALLEY EQUIPMENT (2017)

Cooking Equipment: Range - Gaggenau glass ceramic (CK260-604)

Oven - Gaggenau B0250

Grill - Located in oven

Microwave - Electrolux E30 Micotell 65GPS

Refrigeration: Integrated system with boat systems, 2 large front loader fridges and a top loader drink fridge

Freezer: Integrated system with boat systems, 2 shelf large front loader freezer located in laundry room

Dishwasher: Gaggenau DF241760 stainless steel

Icemaker: Scotsman Model CU0515

Wine Cooler: SPT 12 bottle wine cooler (located in salon)

Trash Compactor: Broan trash compactor Model 1052-B

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Other: Insinkerator Badger 1

## LAUNDRY EQUIPMENT (2016)

Washer: Bosch AXXIS

Dryer: Maytag EPICZ

Other: Iron and ironing board

Sealed hole in laundry room to secure watertight bulkhead

## TENDERS & TOYS

Tender: Tender with 60 hp outboard, new 2021

Tender has tow bar around engine for wakeboard and towing.

Toys: Wakeboard

Inflatables for towing

Fishing gear: (2) complete rods with additional fishing gear

## CAPITAL IMPROVEMENTS

Over the years, VAGABOND has undergone several refits. These were done in 2011, 2016, 2017, 2018, 2021 and 2022.

VAGABOND (as MINISKIRT) went through a very extensive, two-year refit including a redesign in all areas of her deck layout, completed in 2011. Her new transom boasts a fold down swim platform/boarding platform. The only way to accomplish the extensive modifications to her cockpit was to cut the deck off and start over. Now, her hardtop protects the recessed seating while still providing great views. The two new steering stations each provide excellent visibility both windward and leeward and full access to all necessary instrumentation as well as great accessibility to necessary winches.

Electrically, the boat was completely rewired, all new electrical panels were built and the new Atlas frequency installed. Four new inverterchargers were installed for a total of 14 Kw of inverter capacity.

All of the plumbing on the boat was also redone with CPVC. A new Headhunter sanitation treatment plant was installed with five new Headhunter toilets. All pumps on the boat were replaced with new. A new AC and DC bilge system was

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designed and installed including an Arid dry bilge system. All the air conditioning system was redesigned and installed new. Larger fiberglass drip trays were custom built and a makeup air unit was installed. Likewise, the refrigeration system on the boat was completely rebuilt with new compressors. All the hydraulic hoses on the boat were replaced and a new Max Power DC hydraulic pump set was installed. Two new Maxwell vertical anchor windlasses were installed with new chain and a larger anchor on one side was installed. A fire smoke alarm system, burglar alarm system and eight video cameras were installed. A monitoring system for all the boat was designed and installed with complete control throughout the boat. All standing rigging on the boat was replaced as well as the running rigging. All the fuel transferring systems were done new with added filters and pump redundancies. All new Headhunter fuel and water level gauge systems were installed.

All of the interior was completely refinished and new overheads were built. All new appliances were installed as well as new audio/video equipment with a dedicated computer just for music and movies.

As a fiberglass yacht, with twin engines and bow thruster, and an incredible shoal draft of just 7'2.2m, VAGABOND is not just redundant, but also a yacht that can access areas no other sailing yacht can even approach.

## SUMMER MAINTENANCE 2023

Sea Valves all 14 replaced and all marine growth clean system applied.

Inner Prop Shafts serviced

All fuel tanks cleaned x 5

Zinc Anodes, all replaced

Seachests cleaned

Rudder and Shafts checks completed. Both removed and alignments couplings checked and polished.

Hunderstadt checked.

Bottom prep and paint Seahawk Biocop

Prop speed applied to shafts, props and bowthruster

Anchors galvanised x2

Old cutlass bearings removed and Delrin seals, cleaning housings, new bearings and seals installed

Replaced port and stb shaft inner lip seals.

Prop cutter replaced stbd side

Holding tank filters replaced

Fuel lines from tanks cleaned

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2022-2023

## General

Clean all 5 fuel tanks onboard

Replaced all 5 headhunder pressure level gauges for fuel

Professionally Clean all ducting onboard

Fumigate whole boat

Replace sagging ceiling panels

Added covers to steering cable over sheaths

Added cover to fireboy switch by engine room

Sealed hole in laundry room to secure watertight bulkhead

New Tender with 60hp outboard-July, 2021. 50hr service completed June, 2022.

7 New mattresses

Canvas repair work-Tender cover, seating, new addl Canvas for Cockpit entrance - (7/2022)

## Hydraulics

Remove & service hydraulic cylinder for lifting keel

Rectified issues with battery packs so that all systems now work off the battery packs

Replace hydraulic filter on header tank

Remove and Service Hydraulic Rams for Swim Platform. July 2022•

## Rigging

Replace all rod rigging for new

Replace all running rigging for new

Service all 9 winches onboard-Summer 2021

Sails were sent for cleaning and servicing to North Sails Fort Lauderdale.

Added Chafe Guard to topping Lift[keep an eye on it]

Addl Mainsail repair work in Grenada-June, 2022.

In discussions with North sails on a new Mainsail 3di for Dec/ Jan

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## Plumbing

- Replace both hot water boilers onboard
- Replace freezer Compressor
- Replace drinks fridge in cockpit
- Install fans under wine fridge
- Replace heat exchanger for Freezer Compressor
- Replace Circulating pumps for AC compressors
- Replace faulty bilge pumps in lazarette

## Mechanical

- Recalibrate Pitch control boxes for Hundested VPP's
- Remove & service both hydraulic steering rams
- Replace both Port & Stb engine exhaust muffler boxes
- Repair cracked pump on ships horn compressor
- Replace both proximity sensors for retracting and lifting bow thruster
- Service both Lewmar windlasses
- Visual inspection of props & added grease to nipples
- Added cutters to the shafts to prevent picking up fishing lines & nets
- Full service of both Caterpillar engines
- Full service of both Generators
- Re-lag starboard exhaust pipe / Replace Out take fan-(June 2022, Grenada)•

## Watermakers

- Service both watermakers, replace end fittings and flush with chemicals

## Air Conditioning

- Clean fresh air vent in port cabin for circulation around the vessel
- Replace air handler in port guest cabin
- Replace entire cooling loop for AC System, upgraded from CPVCP to Copper tubing-Jan 2022

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Replace Circulating pumps for AC compressors

2 x New Valve Actuators 230v for Air Handlers July

## Electronics

Replaced wind sensor as was reading incorrectly

Replace Furuno radar

Replace all switches at helm stations

Replace various power sources around boat

Adjusted AVR on both generators

Replaced main breakers on both generators & secured better to prevent vibrating

Replaced batteries in UPS packs

Replaced battery for Fire Alarm panel

## Deck

Cut 6 holes in hull of boat to eradicate possible signs of Osmosis

Replaced & strengthened monolithic grids for engine exhaust on both sides

Replaced all anodes on hull

Re-gas all gas stays for deck lockers & hatches

Repaired sound system on deck

Removed and glassed over suspect old underwater light

Replace teak in aft cockpit

Sand & 2 coats of antifoul applied

Repaint ships hull - Miniskirt Aluminium, June 2021

Paint caprail - Offwhite, June 2021

Paint chips on deck, Dec,2022 + June, 2022

## Safety

Service Fire extinguishers-May 2022

Remove FM200 Cylinder from vessel and hydrostat test-July 2021

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Service 2 x Life rafts-July 2021

Service all Life safety equipment-2021

EPIRB-2021

Service all lifejackets-2021

New flare pack for Tender

New Nav lights for Tender

## JUNE – AUGUST 2022

Upgraded / Re lined Starboard Generator exhaust pipe with new cladding and replaced input and output exhaust fans for Air circulation in the enclosed area-Palm Tree Marine, Grenada US\$1,076.00

Mainsail repair-Turbulence, Grenada

Fabric repair-Dinghy cover, Turbulence, Grenada

Exterior seating near helm stations reinforced where Port and aft wheels are near the seating, Turbulence, Grenada

A/C flushed and air vented from System-A/C Grenada

Aft Platform Hydraulic rams serviced and re-sealed-Turbulence, Grenada

Aft Lazarette Hydraulic oil reservoir, Seals replaced-Turbulence, Grenada.

Winch covers-serviced and new webbing and clips installed x5 (June 2022)

New Back screen (stamoid) installation to prevent rain incursion from entrance (July, 2022)

Repaired and replaced as necessary Zips and lining for exterior seating area (July, 2022)

## SEPTEMBER – DECEMBER 2022

New mainsail, staysail and Genoa ordered North Sails 3DI for Feb, 2023 delivery

Paint chips on deck Nov, 2022

Paint topside around mast & Winches, awlgrip, Nov 2022.

Tender well new Awlgrip paint January, 2023

Remark both anchor chains-Dec 2022

Mufflers taken out and serviced, addl welding Dec, 2022

New electric panel for Atlas Shore powerbox electrical system Dec, 2022

Cat Port engine starter motor serviced and new solenoid switches Nov, 2022



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New Dyneema halyard for Tender lift, Dec, 2022

New Victron SMART Phoenix Inverter 24V 1600VA - 230V × 1, Nov, 2022

New 1 x McMurdo Kannad 86-630A Battery Kit for Rescuer 2 & SART4-Sept, 2022

New 1 x McMurdo 86-436 Fragile Tab for SART4, Sept, 2022

Solenoids for Hydraulics DC pumps 24 VDC

Autopilot Solenoids replaced

Updating Electrical documentation and labeling

Lamps for Genset gauges

Reduce slacks and play on Autopilot / Sectors / Rudder wheels

Label addl Helm buttons

LED activation chart for Maxpower box. It will help a lot for remote diagnostics

Windows Laptop, Teamviewer, to help with remote diagnostics by internet

keel lights added

Continue Helms rebuilding with alarms and 3rd Row of buttons. Organize cables.

Change meters for AC Power, restore circuit

Inverter for navigational equipment. Back to 24 V native where possible

Cleared cables and made proper Nav Table Ventilation

Made better NMEA0183 and 2000 interfacing

Install limit switches for Keel.

Extend VSAT Wifi to Owners cabin. Install Access Point

Install Helmsman Alarm to sound on Crew Mess / Captn Cabin

IR repeater and proper ventilation for Directv decoder on crew mess

Proper fixing of keel sensor, maximum down and up and keel lights

4 New B and G Hydra 5000 Screens Oct 2022

2 New B and G Triton Displays Oct 2022

Oil sensors with alarms in engine room bilges Oct 2022

2021/2022

Professionally cleaned all ducting on board

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Fumigated whole boat

Replaced sagging ceiling panels

Installed 7 new mattresses

Removed and serviced hydraulic cylinder for lifting keel

Rectified issues with battery packs so all systems now work off of the battery packs

Replaced hydraulic filter on header tank

Replaced both hot water boilers on board

Replaced fridge and freezer compressors

Replaced drinks fridge in cockpit

Installed fan under wine fridge

Replaced heat exchanger for freezer compressor

Replaced circulating pumps for AC compressors

Replaced faulty bilge pumps in lazaret

Repaired cracked pump on ships horn compressor

Serviced both Lewmar windlasses

Serviced all winches

Mast and boom removed and serviced

Replaced as necessary all rod rigging and running rigging

Added cutters to the shafts to prevent picking up fishing lines and nets

Cut 6 holes in hull of boat to eradicate possible signs of osmosis

Replaced and strengthened monolithic grids for engine exhaust on both sides

Replaced all anodes on hull

Exhaust checked and new muffler boxes replaced by De Angelo Marine

Both engines fully serviced

Large inventory of spare parts purchased

## WORK AT THUNDERBOLT IN 2018

Mast/boom fully painted and an inherent defect corrected by Spar Craft

All standing rigging sent away, re-headed or replaced

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All running rigging replaced

(7) multi system Samsung televisions including Blue-Ray and Marantz receivers

Apple TV in salon and staterooms

All new Furuno Navnet TZ touch navigation equipment with two new X-band and S-band radars, 96 nm range

(4) new navigation monitors and safety monitoring system

New HD Direct TV receivers and antenna in all staterooms, salon, crew mess and crew cabins

New KVH V-SAT and tracvision fleet broadband satellite communications

New rogue WiFi routers and cradlepoint

LED Nav, mast and spreader lights

NEC phone and intercom system

Marquip boarding ladder

(6) LED underwater lights

Entire drive train removed and included new engine mounts, new shaft couplings and seals, rebuilt two Hundested Prop Pitch units, balanced and straightened props and shafts, new cutlass bearings

New firehoses and inspection of all safety equipment

New paint on mast; sandblast and paint boom

## THUNDERBOLT SHIPYARD WORK AUGUST - OCTOBER 2018

Complete bottom and hull inspection by Fleming Marine

Two coats of anti-fouling bottom paint

Prop speed on props and shafts

Removed props and shafts for balancing and alignment (AME Ft. Lauderdale)

New shaft seals and bearings

Removed centerboard. Applied two coats of antifouling paint. Installed new zincs

Inspect centerboard pin

Fabricated new locking pin

New centerboard cylinder. Installed inspection hatch for centerboard cylinder

Installed new hydraulic hoses for PTOs

Service all motors and deck winches (Seahawk Rigging)

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## UPGRADES IN 2018

New exhausts and muffler boxes (Inconal) by DeAngelo Marine

New Gaggenau oven and cooktop

Replaced house battery bank

Installed isinglass around cockpit area

Installed two new chillers and two new frequency drives for air conditioning

## ADDITIONAL WORK DONE IN 2013

All batteries replaced in laundry room and engine room

Port generator removed from boat and totally rebuilt

Totally new wet exhaust system made out of Inconel

Mast removed from boat, refinished and strengthened as necessary, repainted and put back inboat

Audio/visual system upgraded with new Wifi amplifier and new 4G cell data receiver

Once this work was completed, the boat went to Thunderbolt Marine for bottom work. She left Thunderbolt about a year later because of the extensive work.

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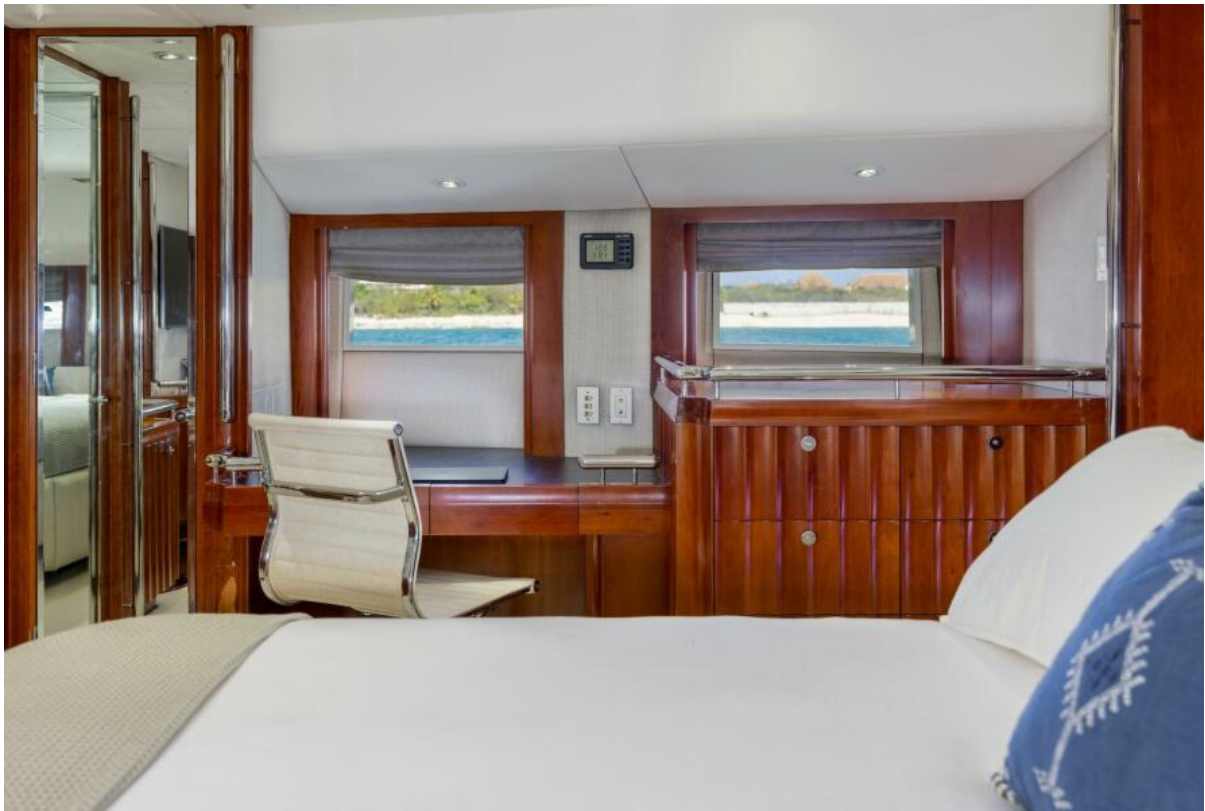




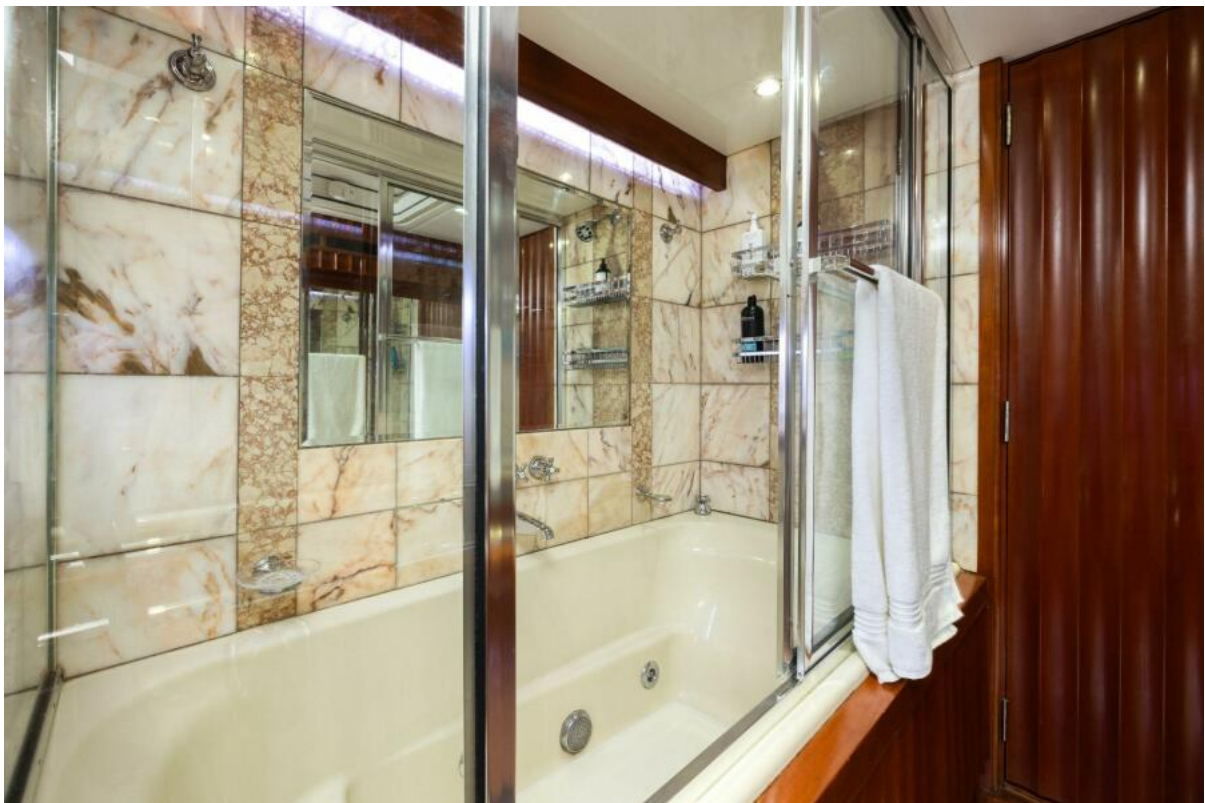
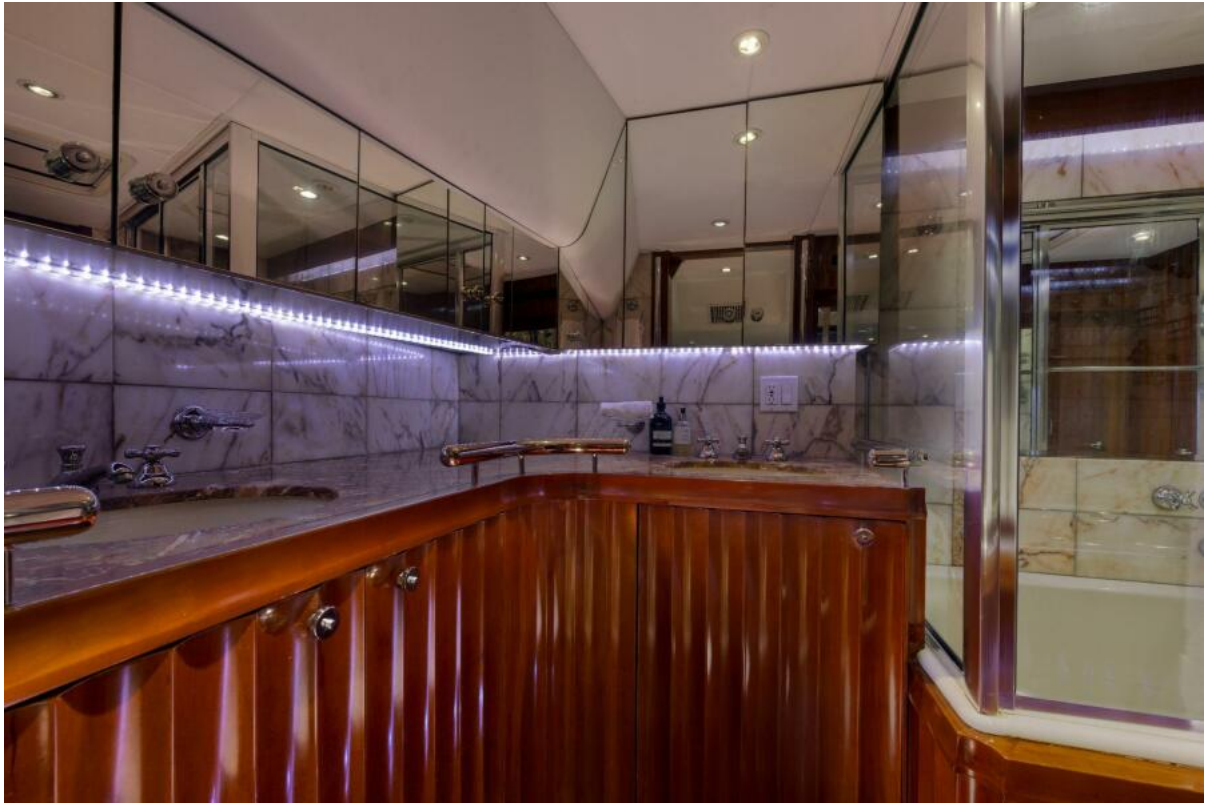
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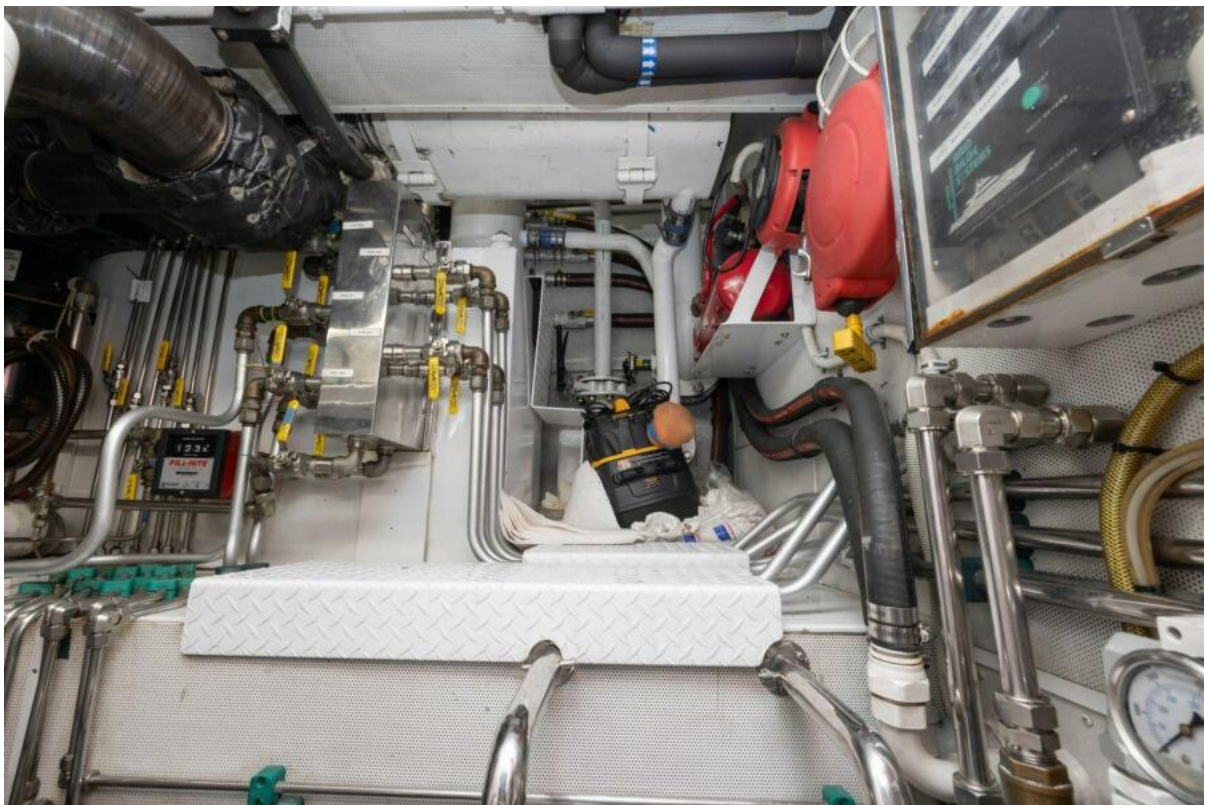


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