

BOAT REPORT: "Miss Bernadette"

Manufacturer: Sea Ray Boats Where Built: Merritt Island, FL
Name of Vessel: MISS BERNADETTE Hull I.D.#: SERP3655B797
Model Year: 1997 Registration #: FL 5961 JX Documentation #: _____
Model of Boat: 450 Sundance Gr. Tons: _____ Net: 23,500lbs.
L.O.A.: 45'6" Beam: 13'11" Draft: 3'7"

Hull Construction and Details:

Material: FRP-Molded fiberglass
Deck: FRP-Molded fiberglass
Superstructure: FRP-Molded fiberglass
Bottom Type: Deep V Keel: None Skeg: No
Flybridge: None
Towers: None Pulpit: 3' Fiberglass
Bulkheads: Four Type: Fiberglass over marine plywood
Location: Fore Peak, Forward Quarter, Amidships, Aft Quarter
General Cosmetics: Interior: Acceptable/Good Exterior: Acceptable/Good

Machinery:

Main Engines: Make: Caterpillar Type: V-drives T.H.P. 840
Location in Boat: Aft # Of Cylinders: 6
Model #: 3126 Serial #: 8NM02073 Port
Model #: 3126 Serial #: 8NM02067 Starb
Approximate Engine Hours: Port: _____ Starb: _____
Reduction Gear: Make: Twin Disc
Model #.: MG-5062V 1.53 to 1 Serial #: 5DN 803 Port
Model #.: MG-5062V 1.53 to 1 Serial #: 5DN 788 Starb
Main Engines Last Overhauled: _____ Original _____ Port
_____ Original _____ Starb
Date Reduction Gears Last Overhauled: _____ Original _____ Port
_____ Original _____ Starb

Engine Indicator Gauges: Location: Steering Console
Volt: 12V Oil PSI: Yes Water Temperature: Yes Ammeter: _____
Gear Oil PSI: _____ Tachometers: Yes Fuel Gauges: Yes Hour Meters: Tachs
Synchronizer: Glendinning Trim Gauges: _____ Trim/ Tilt: _____
Other: _____
Engine Alarms: Oil PSI: Yes Water Temperature: Yes Exhaust Temp: _____
Gear PSI: _____ Neutral Safety Switches: Yes Emergency Shut Down: _____
Ventilation: Bilge: 12V Blower-Operational
General Condition of Bilges: Good/Acceptable
Cooling System: Fresh water heat exchanger cooled
Exhaust System: Wet exhaust to thru bottom and hull side discharge
Flame Arrestor: None - Diesel Engine

Machinery and Equipment, Cont.:

Shaft Logs: Two 2 1/2" Fiberglass with dripless shaft seals
Shafts: Two 1 3/4" Stainless
Propeller Size: Port: 4-Bladed Starb.: 4-Bladed
Spares: Two Spare 4-Bladed - Good
Propeller Material: Nibral Condition: Good
Struts: Two Material: Bronze Condition: Good
Strut Bearings: Two Cutlass
Condition: Good
Rudders: Two Material: Bronze Condition: Good
Mufflers: None Type: N/A Model: N/A
Trim Tabs: Two Model: Bennett
Cond: Operational
Sea Water Intake Valves: 3/4" Bronze
Type: Ball Valves Condition: Operational
Fuel Filters: Six Type: Double Racor Primary, Engine Secondary
Bilge Pumps: Four Type: Rule 2000
Location: Aft Quarter, Aft(2), Engine Room
Auto/Manual: Both Power: 12V
Condition: Operational
High Water Alarms: Installed

Electrical Systems:

Batteries: Five Deka 27M6 Batteries
Voltage: 12V Last Replaced: Date Not Stamped
Master Shut-Off Switches: Two Guest On/Off Switches, Parallel Solenoid
DC Circuit Panel: Location: Main Salon, Steering Console
Condition: Meets ABYC E-9.11.s
Type/Size Wiring: 4/0, 2/0, #2 AWG battery cables, #2, 4, 6, 8, 10, 12, 14, 16 AWG-Thermoplastic
Condition: Meets ABYC E-9
Ground System: Negative Lighting: 12V, 120V
AC Circuit Breaker Panel: Location: Main Salon - Meets ABYC E-8.10.b
Battery Charger: Pro Mariner 60 Amp.
Shore Lines: One Marinco Amp.: 50 Length: 50' Volt: 125/250

Generator: One Make: Westerbeke Model: 8.0 BTD
Voltage: 120/240 Hours: 776.8 Watt: 8000 Flame Arrestor: N/A
Fuel: Diesel Filters: Racor Primary, Engine Secondary
Cooling System: Fresh water heat exchanger cooled
Exhaust System: Wet exhaust to side discharge
Muffler: One Make: Centek Model: Water-Lift
Alarm System: Low oil pressure, high water temperature

Fuel System:

#: Two Fuel Type: Diesel Capacity: 392 Gallons
Location: Engine Room Material: Welded Aluminum
Shape: Rectangular Condition: Acceptable Accessibility: Fair
Bonding: Good Fuel Valves: On/Off Selector Valves
Location: Port side in cockpit, Primary filters
Fuel Lines: Type: USCG Type A1 Size: 3/8", 1/2" Condition: Acceptable
Flex Section: Entire Location: Tanks to Engines
Filling and Ventilation: Two Deck fills, Overboard venting

Fresh Water System and Tanks:

Of Tanks: One Capacity: 100 Gallons Shape: Rectangular
Location of Tanks: Mid-Cabin
Material: Molded Plastic
Pressure System: Twin Shur Flo Pump with Accumulator Tank
Filters: In-Line
Water Heater: One Make: Atwood Capacity: 10.5 Gallons
Dock Side Connection: Yes
Showers: Three Type: Sun Shower, Sump, Stall
Location: Cockpit, Master Head, Guest Head

Fittings and Equipment:

Steering Type: Hydraulic Make: Sea Star Cond.: Good
Clutch Controls: Make: Teleflex Condition: Good
Throttle Controls: Make: Teleflex Condition: Good
Ground Tackle: Anchors: 35 H Danforth Anchor -
Chain and Nylon Rode
Winches: One Make: Lofrans Cond.: Operational
Deck Hardware: Two 10" bow cleats, Two 10" cleats amidships, Four 10" cleats aft -
All found secured and in good condition
Railings: Stainless railing from bow to aft quarter
Cond.: Good
Moldings: Stainless, Plastic Cond.: Good

Heads:

Of Heads: Two Type: USCG Type III MSD Make: Vacu Flush
Location: Port side forward in salon, Mid-Cabin
Material: Porcelain Condition: Operational
Holding Tank: Two Capacity: 58 Gallons Y-Valve: None
Material: Molded Plastic Condition: Acceptable
Macerator Pump: Sea Land Pump - Operational
Deck Top Pump Out: Yes

Accommodations:

of Cabins: Three # of Berths: Six
Salon: Lounge/Galley/Dinette Cabin Sole: Carpet over marine plywood
T.V.: Panasonic (2) V.C.R.: Panasonic (2)
Stereo: Clarion ADX-5255, Jensen C.D. Player: Clarion, Jensen
Bar: Wet Bar, Dry Bar Ice Maker: Raritan
A/C Units: Two Cruis Air units Cond.: Operational

Galley:

Location: Starboard side main salon Type of Stove: Kenyon 3-Burner
Type of Fuel: 120V AC Fuel Lines: None
Shut-Off Valves: Stove, Main Panel Oven: None
Ventilation: Adequate Is Area Around Stove Protected? Yes
Refrigerator: Norcold Freezer: Norcold
Microwave: Sharp Carousel Sinks: Single
Miscellaneous Appliances: 12V Fan, Central Vac, Nu Tone Food Center,
Splendine 2000 Washer/Dryer

Cabin Description:

Enter the cabin from the steering station, down four steps.

Aft and down one step is the mid-cabin. There is a large bunk aft. The head is forward on the starboard side. There is under bunk storage.

The main salon has a convertible sofa/dinette aft and along the port side. The head is forward on the port side. The galley is along the starboard side.

The forward cabin has a full width queen bunk. There is closet and under bunk storage. There is a privacy door to the head aft on the port side.

There are two overhead watertight escape/ventilation hatches and two overhead ventilation

Navigation and Electronic Equipment:

Radios: V.H.F.: Make: B + G Network Cond.: Operational
Make: _____ Cond.: _____
S.S.B.: Make: _____ Cond.: _____
Lorans: Make: _____ Cond.: _____
Make: _____ Cond.: _____
G.P.S.: Make: B + G GPS Plus Cond.: Operational
Make: Furuno Chart Plotter RP-110 Cond.: Operational
Fathometers: Make: B + G Network Quad Cond.: Operational
Make: _____ Cond.: _____
Radar: Make: Furuno 64 Mile Cond.: Operational
Auto Pilot: Make: B + G Network Pilot Cond.: Operational
Hailer: Make: _____ Cond.: _____
Compass: One Make: 4" Ritchie
Horn: 12V - Operational Ship's Bell: Yes
Search Light: ACR-RCL-100 - Operational Clock: Yes
Miscellaneous Equipment: _____
Navigation Lights: Meets Requirements for Class of Vessel - Operational - See Rec.

Safety and Fire Fighting Equipment:

Life Jackets: Type: USCG Type I, II Adult: 5 Child: 1 Total: 6
Life Rafts: #: None Type: N/A Capacity: N/A
Life Rings: Cushions First Aid Kit: Yes
Flare Kit: Orion Kit Expiration Date: See Rec.
Other: _____

Fire Fighting Equipment:

Built in System: Sea Fire Recycled Halon 1301 - Model G 800A
Location: Engine Room
Date Last Inspected: 1997 Approved Type: See Rec.
Portable Extinguishers: Two Type: Dry Chem 1A-10BC
Location: Galley, Helm Station
Date Last Inspected: See Rec. Fire Axe: None
Fire Pump: None Type: N/A
Location: N/A
Other: Sea Fire Alarm

Fishing Equipment:

Outrigger: _____ Fighting Chairs: _____ Gin Poles: _____
Transom Door: Yes Fish Box: _____ Live Well: _____
Rocket Launcher: _____ Cockpit Washdown: Yes Sinks: _____
Bait Consol: _____ Freezer: _____ Rod Holders: _____
Other: _____

Miscellaneous Equipment:

Boat Fenders
Cockpit /Deck Carpeting
Electric Oil Change System
Sea Ray Monitor Alarms
Dockside Phone/TV Hook-Up
Marine TV Antenna
Spare Lines
Boat Hook
Bimini Top over Steering Station and Cockpit with Full Eisenglass Curtain Enclosure
Glendenning Cable Master

COMMENTS AND RECOMMENDATIONS

Comments:

Based on a full interior and a full exterior inspection the structural integrity of the vessel appears sound. Where accessible for inspection, stringers, engine beds, bulkheads and partitions, were all found secured and all appeared to be in good condition showing no evidence of stress, cracks or flexing and there was no evidence of any rot detected. The hull sides were found in good condition with no evidence of any weaknesses detected. The bottom was sounded with a phenolic style hammer and was found in good overall condition with no evidence of any weaknesses. There was one blister found on the starboard side bottom, amidships, just off the keel. No repair work is required at this time.

All underwater appendages were examined and all were found in good condition with no evidence of any weaknesses noted. Please note all of the underwater hardware could use a good cleaning. Both shafts were found turning easily. There was a slight binding in the port shaft which appears to be coming from the shaft seal and it is to be further inspected and adjusted. Both propellers were found in good condition. Both struts and both rudders were found in good condition. There was no evidence of wear noted in either of the Cutlass bearings. The two underwater exhaust discharge tubes were found secured and in good condition. The bottom paint was found in fair condition and consideration to having the bottom sanded and re-painted in the near future should be given. The transom plate sacrificial zinc needs to be replaced at this time. The remaining sacrificial zincs were found in acceptable condition.

The deck areas, fore deck, side decks and the cockpit deck, were all found in good condition with no evidence of any weaknesses noted. There were some minor surface grazing cracks noted at the corners of the integrated swim platform. There was no evidence of any deck leaks noted and where accessible for inspection the deck/hull joint was found secured and in good condition.

The cabin structure was found in good condition with no evidence of any weaknesses noted. There was no evidence of any leaks noted from any of the cabin windows, the overhead hatches or from the cabin door area.

The interior cabin areas were found clean and well cared for.


All galley appliances were found in working condition. The A/C units were found operational. All of the entertainment accessories were found in working condition.

The machinery compartment was inspected and was found in acceptable condition. The engine bilge area under the port engine and the center aft bilge will require some cleaning. Oil absorb pads should be placed under the main engines. The remaining bilge areas were found in acceptable condition. There is ample ventilation provided for. Working space is considered adequate.

The main engines were visually examined. There were some minor engine oil leaks noted at the aft end of the port engine and general attention should be given. There was no evidence of any other engine oil, transmission oil, water or exhaust leaks noted from either engine. Engine hoses and fan belts were found in acceptable condition. There was no evidence of any heavy rusted or corroded surfaces detected on any of the external engine components.

THIS SURVEY WAS VISUAL AND MADE WITHOUT REMOVAL OF FIXTURES components of any machinery, bulkheads, decking, or dismantling of any permanent installations aboard. To all intent this survey may be adjudged as an evaluated opinion based on data supplied by or on behalf of the vessel owner, manufacturer and marine technical publications. All equipment and systems tested and the condition of said equipment and systems are reported to be true at the time of the survey. This survey report is not to be misconstrued as a warranty of said equipment and systems. Any observations by the undersigned are strictly in the nature of opinion and should not be acted upon without verification.

Respectfully yours,
INDEPENDENT MARINE SURVEYORS, INC.


Steve Berlin, A.M.S.
Accredited Marine Surveyor

Comments, continued:

Thru-hull fittings were found well bedded, are fitted with shut-off handles, are accessible, however please most valves were found stiff and hard to operate and will require servicing. Raw water sea strainers were found in acceptable condition, with cleaning needed. Connecting hoses were found in poor to acceptable condition(See Rec.) and hoses were found double clamped.

Batteries are stored dry and secured from movement, all stored in covered boxes. Batteries were found in acceptable condition at this time.

Wiring was found meeting ABYC and USCG Standards and where visible for inspection was found in acceptable condition.

12V DC circuits were found circuit breaker and fuse protected. Circuit switches were found clearly identified and were found operational.

120V AC circuits were found circuit breaker protected. Circuit switches were found clearly identified and were found operational.

The generator was visually examined and is reported to be in good operating condition. The unit was not run at this time.

Where accessible for inspection both fuel tanks were found secured and both tanks appeared to be in acceptable condition with no evidence of weaknesses detected. Fuel lines were found in acceptable condition and there was no evidence of any fuel leaks noted. The fuel shut-off selector valves were found accessible and were found operational. Fuel fill hoses and vent lines were found in acceptable condition.

RECOMMENDATIONS;

1. AT TIME OF THIS HAUL OUT;

- a. Have the port shaft seal and connecting hose checked as there appears to be binding either the seal or hose when the shaft is turned. Adjust as needed.
- b. Replace the transom plate zinc.

2. GENERAL;

- a. Service and make operational the starboard engine sea cock valve.
- b. Service and make operational the generator sea cock valve.
- c. Service and make operational the head discharge sea cock valve.
- d. Replace the generator raw water intake hose, sea cock to sea strainer.
- e. Clean all raw water sea strainer bowls.
- f. Tighten or re-pack if needed the starboard rudder post packing gland.
- g. Tighten or re-pack if needed the port rudder post packing gland.
- h. Replace the rusted hose clamps on the port engine exhaust line at the thru bottom connection.
- i. Clean the engine bilge area under the port engine and the center aft bilge area.
- j. Place oil absorb pads under the main engines.
- k. Install a cross-over cooling line between the two Drip-Less shaft seals.
- l. Repair the in-operative engine room lights.
- m. Clean the shower sump basin.

3. MECHANICAL;

- a. Address minor engine oil leaks as noted on the aft end of the port engine.

4. SAFETY;

- a. The aft bulb on the Anchor Light is in-operative, repair light as needed.
- b. Vessel will require an updated Flare kit.
- c. Recertify all fire extinguishers.
- d. Install a CO Monitor and a Smoke Detector in the cabin area.

All above items done and complied with *N. Demisay*