

SOUTH CAROLINA SPECIFICATION

1. GENERAL DESCRIPTION

Info: A very well balanced, planning hull, designed for single handed ocean racing. Was in Around Alone 1998/99. Easy to handle, allowing +25 kn speed - controlled by self steering (or helmsman). Refitted in 2002-2003, well maintained, in good condition, ready for 2009 season.

The ultimate yacht for: *Serious single- (and/or) two handed ocean racing, *Events, teambuilding, skippered adventure/racing charter activities, *Add/Sponsor projects

Yacht name: "South Carolina"

Type/class: OPEN DESIGN 50 Around Alone class II

Designer: Lars Bergström and Sven-Olof Ridder

Building year: 1998

History: Around Alone with skipper Robin Davie 1998/1999 i.e. 1 x Circum navigation 1998-1999, 1 x Atlantic crossing 2003, Scandinavian single handed off shore racing 2004-2006, Adventure Charter/Events/Team building business 2003-2006.

Basic data: Length 15 m, Width 4,5 m, Draft 1,95 m, Weight 6 750 kg, Height 20 m, Lys 1,48, Hull no. WE001, Motor no. XE5567

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2. CONSTRUCTION

Material: Polyester, Multi axial maths, Foam core, Gelcote (white), Epoxy primer

Structure: Cross/Longitude floor construction, 3 x water tight bulkheads, Longitude stringers, Longitude bulkheads (water ballast- / floating tanks)

Keel: Led bulb with wings, Keel weight 2 250 kg

Rudder: Balanced spade rudder, Stainless steel shaft

Water ballast tanks: 1000 L + 350 L per side, Floating tanks 1200 L per side, Inspection hatches for ballast tanks

3. RIG

Mast and boom: B&R, Tripod stepped alu mast, Flexible mast base, Carbon spreaders, Carbon boom, Fixed boom vang stainless steel

Standing rig: Rod, 2 x Profurl headsail furling systems

Running rig: 4 x Dynema halyards, 2:1 reduction, 1 x Spi boom lift, 1 x Gennaker down haul, 1 x Lazy jack system, 4 x Dynema main reefing lines, All required sheets

4. DECK GEAR

Winches: 4 x Andersen ST 52, 2 x Andersen ST 48

Deck equipment: Harken blocks, Spinlock line stoppers, Pulpit, Pushpit, Life lines, Life raft 6 pers, Anchor Bruce 20 kg, Anchor rod 60 m incl chain 5 m, Fenders, Mooring lines

5. SAILS

Following sails are in working condition including: Main dacron, Staysail dacron, Gennaker in sock, Spare sails. **Needs replacement:** Jib spectra

6. TECHNICAL SYSTEMS

Engine system: Beta marine (Kubota) 20 hp freshwater cooled, Exhaust separator, Sail drive, J-prop

Tanks: Diesel tank 100 L, Fresh water tank 10 L.

Electrical system: Electrical switch board, 2 x 145 A batteries, 1 x 40 A alternator, 2 x 120 A alternators, 220 V battery charger, Shore power wire

Pumps: 1 x Electrical ballast pump 700 L/min, 1 x Bilge pump manually operated, 3 x Bilge pumps electrically operated, 1 x Diesel transfer pump manually operated, 1 x Fresh water pump manually operated, 1 x Seawater pump manually operated

Steering system: Carbon tiller, Rod steering system

Self steering: Monitor wind vane self steering, Autopilot ST 4000+

Nav systems/electronics: Wind, speed, depth, GPS, Laptop, SSB receiver, VHF, Stereo (CD/FM/AM) incl speakers in main cabin and cockpit

7. INTERIOR

General: Wallas diesel heater, 4 x Fire instiguiser

Forward cabin: 4 x Crew berth, 1 x Double berth, Storage (sails)

Nav station: Chart table, Storage (charts, pilot books, technical documentation, files, etc)

Galley: Origo stove 2-burner (ceresin), Sink, Fresh water tap, Sea water tap, Storage (food, beverage and cutlery)

Skipper berth: Skipper berth, storage (safety- and medical equipment)

Passage aft: Engine room and Sailing gear storage

Heads: Toilet, wet sailing gear storage (heated)

Aft cabin: 2 x crew berth, Seating area 8-10 pers, Table

8. MISC EQUIPMENT (not installed)

Various equipment not installed: Navtex (Nasa), Medical kit, Flares, Search light, Binoculars, Extensive spar part kits including Monitor parts, Engine parts, Rigging parts, Sail repair kit, Tools

9. SOUTH CAROLINA PHOTOS





Side view stern



Stern view



Side view bow



Cockpit



Stern view



Sailing (2006)



Center cabin - Galley



Center cabin - Nav station



Center cabin - sb side



Heads - sb



Engine



Passage aft - pt



Aft cabin



FW cabin - pt



FW cabin - sb



Mast



Rig



Keel

6. Known fault

- Jib spectra Sail – Needs replacement
- Main sail need service – luff sliders and one fullbatten need to be replaced.
- Oil is coming out of the impeller of the engine – packing must be replaced.
- 2 new rope sacks must made.
- Cosmetics damages on the gunwale (both sides).
- Electricity is entering the propeller from the engine.
- Zink nodes must be replace on the propeller (2 item).
- Repainting of hull – bottom paint.
- Change bulbs in the top lantern to light diodes
- Centre light on the mast/rig must be changed.

Byten under säsong är:

- Den lilla focken (jib).
- Läcker olja från impellern – packning i kylvatten drevet måste bytas.
- Storsegel behöver några travare bytas ut och en styck fullbatten.
- Sen behöver man gå över reef-tamparna.
- 2 st. nya tamp säckar måste sys.
- Kosmetiska skador på regling – en på styrbord och en på barbord.
- Det kommer elektrisitet ner till propellern – det elektriska systemet i motorn måste gås igenom.
- Zinknoder i propellern måste bytas ut (2 st.).
- Ommålning med ny bottenfärg.
- Byta ut topplaterna till diodbelysning.
- Mitten ljus på rigg måste bytas.