



SEABOATS

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33.20m Aluminum SWATH Crew Boat for Sale, Bareboat Charter, or Joint Venture



Listing ID - 4353

Description 33.20m Aluminum SWATH Crew Boat

Date 1999

Launched

Length 33.20m (108.9 Ft)

Beam 13.48m (44.2 Ft)

Draft 3.66m (12.0 Ft)

Note 2x Stewart & Stevenson Turbine

Location Amelia, Louisiana USA

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Price USD 1.1m

This 120' x 40' Aluminum SWATH crew boat was built in 1999 for Trico Marine to quickly shuttle as many as 250 passengers to offshore platforms. She was built by Eastern Shipbuilding Group and designed by Petrobras.

The goal was to create an offshore crew transport vessel that would phase out costly helicopter rides and rough voyages on conventional, mono-hull crew boats. The SWATH design provided a smooth ride and met the requirements of an average speed of 25 knots. The M/V Deacon is capable of speeds over 30 knots.

The ergonomic requirements were defined to limit the incidence of seasickness to less than 5% in 4 hours exposure in the 2- to 3- meter seas so common to the Campos Basin where the vessel would operate. They also required comfortable seating, ample legroom and an HVAC system with a relatively high rate of exchange. The final design presented a number of challenges, while incorporating many high tech features, such as a gas turbine coupled to controlled pitch

propellers via a 27:1 reduction gear and an active fin system.

The vessel was built for \$23 million. New construction cost to replace the vessel is estimated at over \$30 million. While the M/V Deacon is currently powered with two Allison 501 KF turbines, she may be re-powered with conventional engines. A recently constructed model shows what the vessel's outer decks would look like with conventional power.

After five years of service in Brazil, the vessel was placed in freshwater storage for five years. During the five years of storage, the crew was on board and machinery was run regularly. The M/V Deacon was transferred to Seacraft Shipyard where she was dry-docked in June 2008 and the bottom of the vessel was repainted. Seacraft is in Amelia, Louisiana, USA.

Can be reconfigured or re-powered to:

Crew Boat, Passenger Ferry, Dinner Cruises, Whale Watching, Research Vessel, Casino, Military Yacht, Seismic Surveying, Live Aboard Dive Boat, Dive Support Vessel.

Length Overall: 33.20m (108.9 Ft)

Registered Length: 31.04m (101.9 Ft)

Moulded Beam: 13.48m (44.2 Ft)

Moulded Depth: 5.79m (19.0 Ft)

Moulded Draft: 3.66m (12.0 Ft)

Loadline Draft: 10.0 Ft

Lightweight Tonnage: 222.78 Mt (219.26 Lt)

Design Cruising Speed: 25 Knots

Max. Cruising Speed: 30 Knots

Construction Material: Aluminum Hull & Superstructure

International Tonnage: 537 Gross / 167 Net

Regulatory Tonnage: 99 Gross / 67 Net

Capacities

Diesel Fuel Oil: 17,483 Usg (66.2 M3)

Potable Water: 445 Usg (1.7 M3)

Ballast Water 26,764 Usg (101.3 M3)

Sewage: 903 Usg (3.4 M3)

Deadweight Fluid Capacities: 160.9 Lt (163.49 Mt)

Documentation

Vessel Type Small Waterplane Area Twin Hull (Swath)

Regulatory Vessel Name Deacon

Regulatory Radio Call Sign Wcy2110 (FCC)

Regulatory Flag Us (USA)

Regulatory Certification USCG Certificate Of Inspection - Class: US CFR Subchapter Passenger

K - *Restrictions: not more than two hundred (200) nautical miles from shore while engaged in support of exploration, exploitation or production of offshore mineral or energy resources."

Regulatory Official Number: 1067967

Regulatory Hailing Port: New Orleans, Louisiana

Regulatory Status: Laid Up

Vessel Classification

ABS, ☒ A1 *Restricted Service - ☒ AMS - *Restrictions: not on an international voyage of not more than two hundred (200) nautical miles offshore of Brazil while engaged in support of exploration, exploitation or production of offshore mineral or energy resources

ABS ID A9829004

IMO Number 9203447

IMO Convention 1988 International Convention for the Safety of Life at Sea (SOLAS

Regulatory Design Rules US CFR 46 Subchapter K - ABS Aluminum Vessels Under 90m - 1990 ABS

High-Speed Craft Rules - 1996 ABS SWATH Guide

Vessel Designer: Alan C. McClure Associates, Inc., Houston, Texas, USA

Vessel Builder: Eastern Shipbuilding Group, Panama City, Florida, USA

Hull Number: 575

Spares & Miscellaneous

Reduction Gear: (2) Philadelphia Gear Corp. - Type: 20HMGH-HP2S (port) Type:

20HMGH-HP2SB (stbd)- Ratio: 27.39:1 - Continuous Power Rating:

4,600hp (3,430kW) - Continuous Input Speed Rating: 13,680rpm - Continuous

Output Speed Rating: 499.15rpm (port) / 500rpm (stbd)

Propeller Drive Shaft (1) Wärtsilä

Propeller Blade: Wärtsilä, control pitch propeller (CPP) blade - Type: ??

Rudder: Eastern Shipbuilding Group - Type: Semi-Balanced, fully fabricated

Accommodations

Max. Regulatory Persons Allowed: (256) United States Coast Guard

Max. Regulatory Passenger Capacity: (250) United States Coast Guard

Passenger Seating, Forward Facing: (250) Weber Aircraft - Type: 824103-418 - Specification: NAS 809 Type 1 - FAA

Compliance: TSO-C-39a

Passenger Head (6) w/sink

Min. Regulatory Crew Requirement

(6) United States Coast Guard - (1) Master - (1) Licensed Mate - (1) Chief

Engineer - (3) Deckhand

Crew Stateroom (2)

Crew Berth (4)

Crew Head (2) w/sink & shower

HVAC System

High rate of air exchange - BTU: (2) Bitzer, AC compressor - Type: HSK6461-60 - (1) Sabroe Marine Refrigeration AS, AC compressor control - (1) G&L Beijer Electronics AB, AC operation terminal - Mod: MAC40+/MTA-100 - Type: 00760E -

(1) AirCoil Enrg-Vekslere, air handler - Type: DK-3400 Hillerod - (1) Saia-Burgess, programmable logic controller (PLC) - Type: PCD2

Galley HVAC System

(1) Fujitsu, flex wall mount heat pump air handler - Type: ASU12RLF - BTU: 12K (1Ton) - SEER: 21 - Voltage:

208VAC/230VAC - (1) Fujitsu, heat pump condensing unit - Type: AOU12RLF - BTU: 12K (1Ton) - SEER: 21 - Voltage:

208VAC/230VAC

Other Facilities

Galley: w/combination refrigerator/freezer, electric cooking range, microwave, sink w/garbage disposal, water cooler dispenser, dining table & walk-in pantry closet

Galley Seating: (5) marine bucket, rear facing

Laundry Facility: Washer & Electric Dryer

Workshop: 2) w/ HAVAC, overhead lights, 120v outlets, worktable, bench grinder, bench vise & tool chest

MACHINERY

PROPULSION

(2) Stewart & Stevenson, Inc - Type: Allison 501KF5 Gas Turbine - Total Ship Continuous Shaft Power Rating: 11,280Bhp (8,412kW) - Continuous Shaft Power Rating: 5,640Bhp (4,206kW) @ 14,200 rpm - Power Turbine Operating Range: 7,000-14,500rpm

REDUCTION GEAR

(2) Philadelphia Gear Corp. - Type: 20HMGH-HP2S (port) Type: 20HMGH-HP2SB (stbd) Ratio: 27.39:1" Continuous Power Rating: 4,600hp (3,430kW) - Continuous Input Speed Rating: 13,680rpm - Continuous Output Speed Rating: 499.15rpm (port) / 500rpm (stbd)

PROPELLER

(2) Wärtsilä, control pitch propeller (CPP)

RUDDER

(2) Eastern Shipbuilding Group
Type: Dual Control
Synch & Independent, semi-balanced, fully fabricated

GENERATOR

(2) Newage International
Type: Stamford HC.M494F1
kW: 315 - kVA: 394
Hertz: 60 - Volts: 480
Amps: 474 - Phase: 3
Speed Rating: 1800rpm Rating: Continuous Duty

GENERATOR DRIVE

(2) Cummins
Type: NTA855-G3 - 4 Stroke, In-line
6 Cylinder
Displacement: 14.0litre (855in³)
Aspiration: Turbocharged & Aftercooled Prime
Output Power @ 1800rpm: 480Bhp (358kWm)
Continuous Output: Power @ 1800rpm: 375Bhp (280kWm)
Standby Output Power @ 1800rpm: 535Bhp (399kWm)

BOW THRUSTER

Omega-Jet - Type: 003100 Gondola

BOW THRUSTER GEAR/ PROPELLER UNIT

Holland Roer propeller, variable speed & reversible
Type: HRP 300-60 Power Rating: 197hp (147kW)
Input Speed: 1800rpm
Reduction Ratio: 2.27:1
Propeller Diameter: 32.28" (820mm)

Propeller Type: 4-Blade Manganese Bronze

FIN STABILIZER

(4) Vosper Thornycroft Marine Products, Ltd, Series 350 (aft), Series 200 (fwd)

HYDRAULIC SYSTEM

(2) Rexroth, turbine star

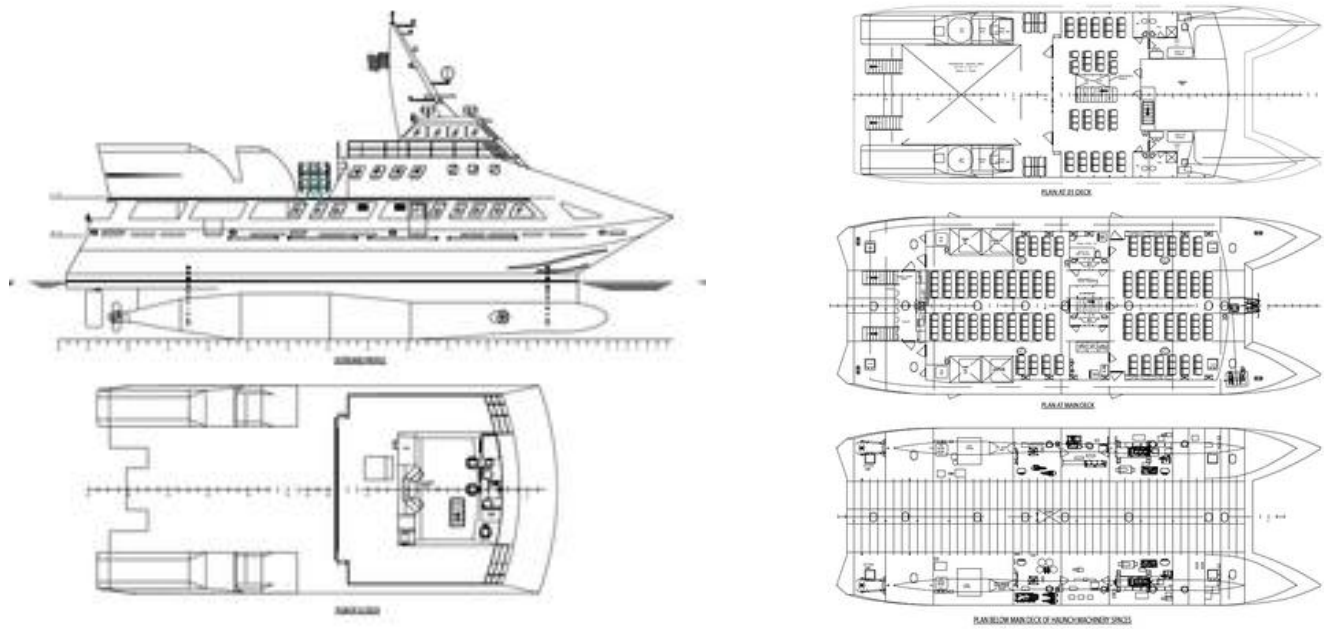
Type: 484TS-9447-0-D

(2) Huber, Inc, steering /control pitch propellers (CPP) / fin stabilizers: Type: HI-650

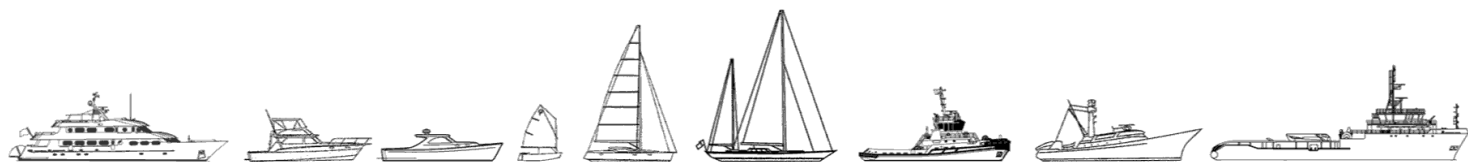
OILY/WATER SEPARATOR

Coffin World Water Systems

Type: Heli-Sep 500



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