

Mink Marine

Owen Sound 519-387-6465

Marine Survey

Vessel Name : Aegir III

Client Name	XXXXXXXXXX
Survey Date	XXXXXXXXXX
Vessel Make	Alberg
Vessel Model	37
Survey Purpose	Condition and Valuation for Insurance
Surveyor Name	Kurtis Mink
Survey Location	XXXXXXXXXX



NAVSURVEY



**Canadian Coast
Guard College**

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1 CUSTOMER DETAILS

Customer Name	XXXXXXXXXX
Customer Address	XXXXXXXXXX
Customer Telephone	XXXXXXXXXX
Customer Email	XXXXXXXXXX

2 VESSEL DETAILS

Vessel Name	Aegir III
Vessel Make	Alberg
Vessel Model	37 Mark II
Year	1973
License #	XXXXXXXXXX
Hull Identification #	XXXXXXXXXX
Model Length	37'
Length Overall (LOA)	38'
Waterline Length (WLL)	26'6
Beam	10'2
Draught	5'6
Freeboard	3'
Clearance	5' WL to cabin roof, 49'3 WL to top of mast
Hull Type	Displacement
Displacement	16,000lbs with 6,500lbs of ballast
Water Capacity	60 gallons
Waste Capacity	25 gallons
Fuel Capacity	25 gallons
Engines	Westerbeke 4-107 40hp
Cruising Speed	6kts
Top Speed	6.5kts
Primary Colour	White
Secondary Colour	Green
Weather	10°C overcast



3 VESSEL OVERVIEW

From Wikipedia:

The design was built by Whitby Boat Works in Ajax, Ontario, Canada. The company built 248 examples of the design between 1967 and 1988. The Mark I was built from 1967 to 1971 and the Mark II from 1971 until production end in 1988.[1][3][4][5]The Alberg 37 is a recreational keelboat, built predominantly of fibreglass, with teak wood trim. It has a masthead sloop rig or optional yawl rig, with aluminum spars. It has a slightly spooned raked stem, a raised counter transom, a keel-mounted rudder controlled by a wheel tiller and a fixed long keel. It displaces 16,800 lb (7,620 kg) and carries 6,500 lb (2,948 kg) of lead ballast.[1][3]

4 SCOPE OF SURVEY

The scope of the survey is to inspect and determine the condition of the vessel for insurability purposes for the named client only. Survey includes out of water including bottom, in water or sea trial as indicated in the Survey Details section.

Findings are for the day of the survey within the limitations of the visual and physical means of non-invasive and non-destructive testing within commonly accepted industry standards. Sections only accessible by removing tanks, bulkheads, headliners or paneling that have been glued, nailed or otherwise secured are well beyond the scope of this survey. The survey is completed without removing any tools, clothing, supplies or other miscellaneous materials.

No stability characteristics or inherent structural integrity determinations have been made or opinions expressed.

Inspection on of flexible tubing, piping and hoses and wiring is limited to external visual inspection only and only where accessible.

Tests of electronic instrumentation and mechanical systems are not performed unless specifically stated. Electronic equipment tested is checked for "power up" only.

Safety equipment onboard is not verified or warranted to be in accordance with Transport Canada requirements as part of this survey. It is the responsibility of the operator to ensure that safety equipment and lighting meets regulatory requirements before setting out.

Items such as smoke, vapour and gas detectors which are given expiry dates by their manufacturer should be replaced in accordance with the manufacturers recommended replacement date.

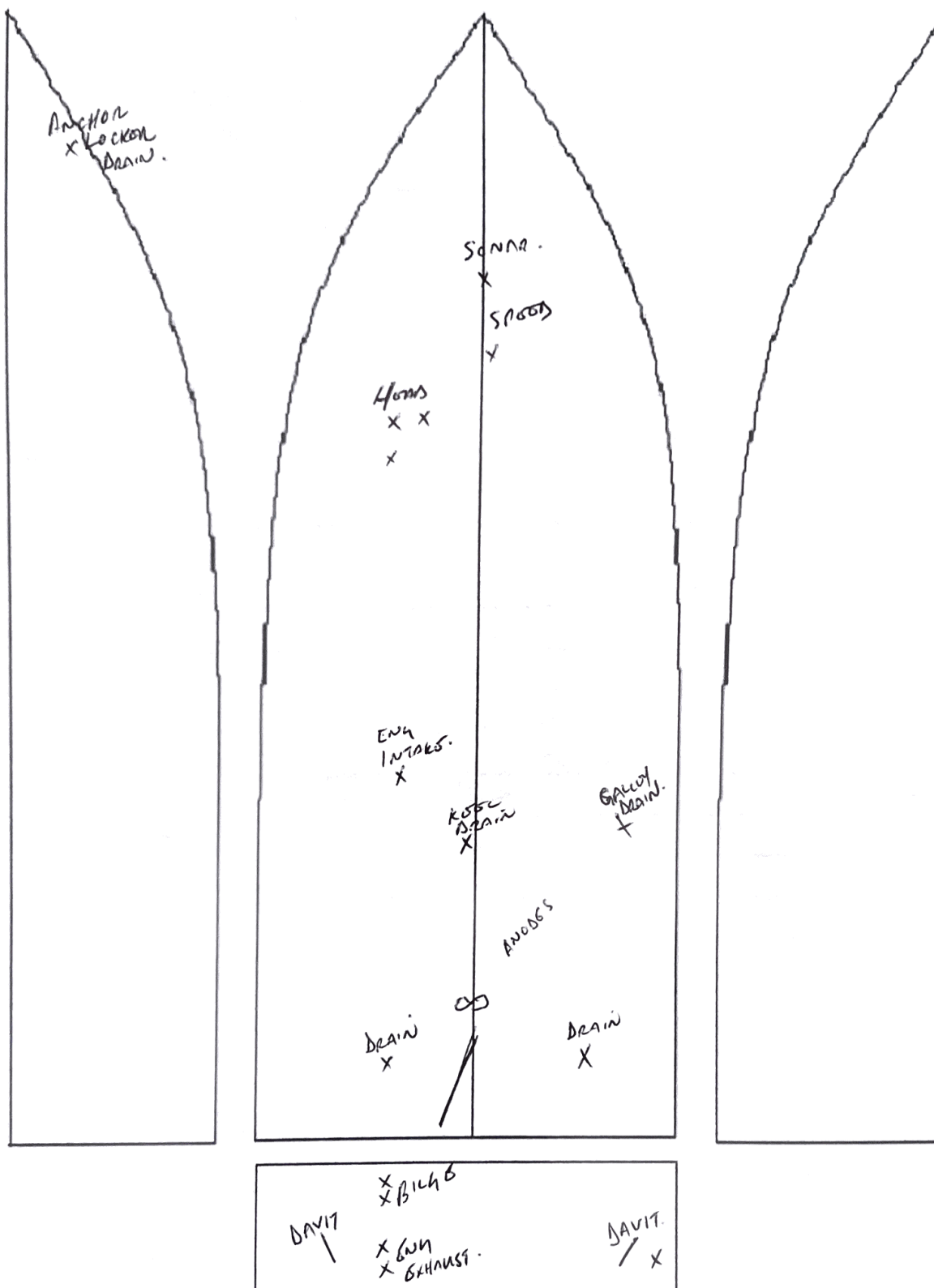
Moisture meter readings and percussive soundings are not an exact science and as such are used as guidance for further investigation and discovery of possible issues. Moisture meter readings are relative and should not be used in direct comparison with any other vessel or even a separate section of the same vessel as construction materials and methods may differ.

R: This icon represents a recommendation around an item of concern.



5 THROUGH HULL DIAGRAM

Diagram of all through hull penetrations.



6 HULL BELOW WATERLINE

Structural Material	Fiberglass
Keel to Hull Joint	None – full keel
Coating	None
Antifouling Paint	Bottomkote
Through Hulls	Suitable
Bow Thruster	None
Transom Equipment Mounting	Davits and ladder
Moisture Readings	005-011 No signs of delamination or weakness from percussion testing.



Figure 1 Bottom Stbd Fwd





Figure 2 Bottom Stbd



Figure 3 Bottom Stbd Aft





Figure 4 Bottom Port Fwd



Figure 5 Bottom Port





Figure 6 Bottom Port Aft



Figure 7 Bottom Centerline





Figure 8 Bottom Centerline



Figure 9 Bottom Aft





Figure 10 Keel Toe



Figure 11 Keel Heel





Figure 12 Bottom Through Hull



Figure 13 Bottom Through Hull





Figure 14 Bottom Through Hull



Figure 15 Bottom Through Hull





Figure 16 Bottom Through Hull



Figure 17 Bottom Through Hull





Figure 18 Bottom Through Hull



Figure 19 Bottom Through Hull





Figure 20 Bottom Moisture Meter



Figure 21 Bottom Moisture Meter





Figure 22 Bottom Moisture Meter



Figure 23 Bottom Moisture Meter





Figure 24 Bottom Moisture Meter



Figure 25 Bottom Moisture Meter



7 EXTERNAL DRIVELINE

Seal (s)	Suitable
Shaft	1" Stainless Steel, slight scoring at bearing
Strut(s)	None
Bearing(s)	Minimal wear, some play in bearing
Prop (s)	Suitable, 3 blade bronze D13P10L 1257
Rudder (s)	Suitable, Some play in gudgeons
Securing Nut (s)	Suitable
Lock Pin	Suitable
Anodes	Suitable



Figure 26 Prop





Figure 27 Prop Specs



Figure 28 Shaft Bearing



8 HULL ABOVE WATERLINE

Structural Material	Fiberglass
Hull Sides	Suitable
Deck to Hull Joint	Suitable
Coating	None
Rub Rails	Fiberglass
Through Hulls	Suitable
Port Holes	Suitable
Ventilation Cows	Suitable
Vessel License #	None Registered
Moisture Readings	007-012 no signs of water ingress or weakness.



Figure 29 Hull Stbd Fwd





Figure 30 Hull Stbd



Figure 31 Hull Stbd Aft



*Figure 32 Hull Port Fwd**Figure 33 Hull Port*



Figure 34 Hull Port Aft



Figure 35 Hull Stern





Figure 36 Hull Stern



Figure 37 Hull Moisture Meter





Figure 38 Hull Moisture Meter



Figure 39 Hull Moisture Meter



*Figure 40 Hull Moisture Meter**Figure 41 HIN*

9 DECKS

Forward Deck	Suitable
Aft Deck	Suitable
Side Decks	Suitable
Moisture Readings	Suitable, no signs of water ingress or weakness from percussion testing
Railings	Suitable, stainless stanchions with cables
Cleats and Fairleads	Suitable
Pulpit	Bow rollers
Non-Slip Coating	Requires reapplication
Hatches	Suitable, manual
Transom Door	None
Drains	Suitable
Windlass	Suitable, with power capstan.
Anchor Locker	Suitable
Anchor	35lb CQR
Anchor Rode	3/8" chain 100'
Dock Lines	Suitable
Fenders	Suitable

R: Deck is slippery when wet, recommend reapplication of non-slip.





Figure 42 Deck Fwd



Figure 43 Windlass





Figure 44 Windlass



Figure 45 Washdown Locker





Figure 46 Anchor Locker



Figure 47 Anchor Locker





Figure 48 Anchor Roller



Figure 49 Deck Stbd





Figure 50 Deck Port



Figure 51 Deck Aft





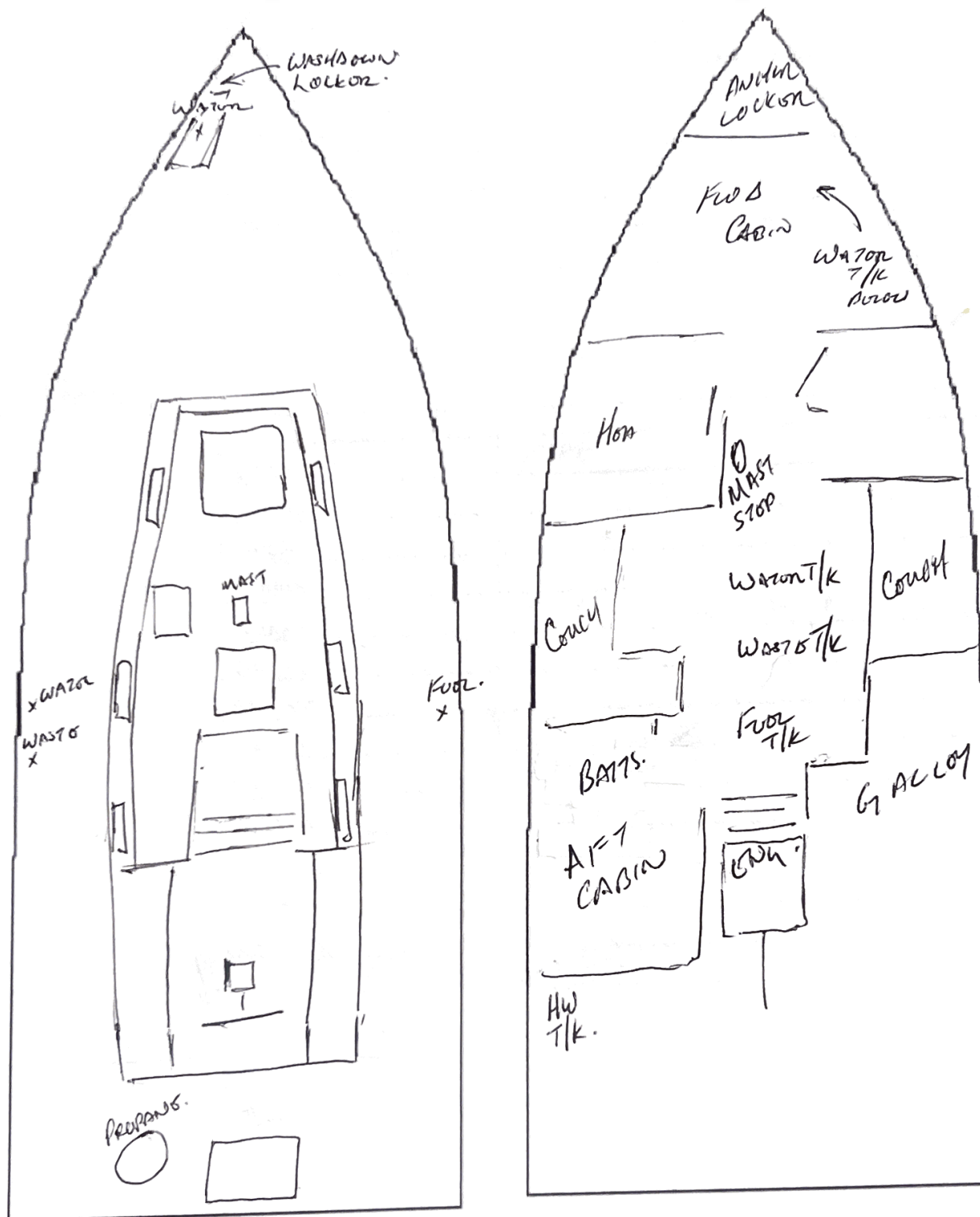
Figure 52 Deck Aft



Figure 53 Anchor



10 DECK DIAGRAMS



11 SUPERSTRUCTURE

Windows	Suitable
Window Frames	Suitable
Door	Suitable, Lift out Slide back
Canvas	Suitable, full enclosure, very good condition
Canvas Frame	Suitable
Windshield	None
Grab Rails	Suitable
Radar Arch	None



Figure 54 Cabin Window Stbd





Figure 55 Cabin Window Port



Figure 56 Superstructure Hatch





Figure 57 Superstructure Hatch



Figure 58 Superstructure





Figure 59 Cabin Entrance Hatch



Figure 60 Cabin Entrance Hatch



*Figure 61 Helm Enclosure*

12 HELM(S)

Location 1	Aft
Seating	Suitable
Visibility	Suitable
Controls	Suitable
Gauges	Tach, press, temp, hrs
Switches	Suitable
Compass	Suitable 5" deteriorated
Wipers	None



*Figure 62 Helm**Figure 63 Engine Controls*



Figure 64 Compass

13 SAILS AND TACKLE

Keel Bolts	Suitable
Type of Mast Setup	Sloop
Mast	Aluminum
Head Plate	Suitable
Mast Foot	Suitable, keel step
Forestay	Suitable, no fraying
Shroud	Suitable, no fraying
Aft Stay	Suitable, no fraying
Stem Plate	Suitable
Chain Plate	Suitable
Stern Plate	Suitable
Terminals	Suitable
Thimbles	Suitable
Spreader	Suitable, single
Furler	Auto furlex
Jib Travelers & Track	Suitable
Mainsail Lugs & Track	Suitable



Masthead Sheave	Suitable
Boom	Aluminum x2
Gooseneck	Suitable
Mainsheet Blocks	Suitable
Mainsheet Traveler	Suitable
Jamming Cleats	Suitable
Winches	Suitable, Lewmar 43, 20 , 16
Mainsail	Like new condition
Genoas	150% decent
Jibs	None
Spinnaker	None
Spinnaker/ Jib Pole	None
Running Rigging	Suitable
Shackles	Suitable
Turn Buckles	Suitable
Pulleys	Suitable
Toggles	Suitable



Figure 65 Running Rigging





Figure 66 Boom



Figure 67 Boom





Figure 68 Gooseneck



Figure 69 Mast





Figure 70 Mast



Figure 71 Mast Step





Figure 72 Furler



Figure 73 Mast Blocks





Figure 74 Bottom Blocks



Figure 75 Stay & Shroud Turnbuckles





Figure 76 Stay and Shroud Connection



Figure 77 Winch



*Figure 78 Winch**Figure 79 Winch*

*Figure 80 Winch*

14 ELECTRONICS

VHF	Standard Horizon CMP847W
GPS	None
Radar	None
Autopilot	Autohelm 3000
Stereo	Alpine CD
Intercom	None
Antennas	Suitable
Depth Sounder	Autohelm Bidata Speed and Depth
Television	None



*Figure 81 VHF**Figure 82 Speed and Depth*



Figure 83 Autopilot



Figure 84 Stereo



15 CABIN

Deck	Suitable
Deck Covering	Teak strip
Wall paneling	Suitable
Electrical	No GFCI
Lighting	Suitable
Headliner	Suitable
Doors	Suitable, Solid wood pocket door.
Bulkheads	Suitable
Stairs	Suitable
Upholstery	Suitable
Vacuum	None



Figure 85 Cabin





Figure 86 Cabin Aft



Figure 87 Cabin Fwd



*Figure 88 Cabin Ceiling**Figure 89 Cabin Windows*

*Figure 90 Cabin Stbd**Figure 91 Cabin Port*

16 ELECTRICAL

Main Distribution Panel	Suitable
# Shore Power Inlets	1
Voltages Divided	Yes
Main Isolator Switches	No
GFCI First Plug	No GFCI
Common Ground	Suitable
Shore Power Neutral	Suitable
Stray Current	Not measured, not in water
Wire Labeling	Suitable
Routing None Chafing	Suitable
Stranded Cable	Suitable
Wire Gauge	Suitable
Lightning Protection	Suitable
Inverter	None
Solar Controllers	None
Solar Breakers	None

R: No GFCI protection, Recommend install GFCI outlets.



Figure 92 Electrical Panels





Figure 93 Electrical Panels



Figure 94 Outlet



17 GALLEY

Location	Below Stbd
Galley Sink	Single Stainles
Galley Stove	Gourmet II Propane 4 burner with oven
Galley Fridge	Icebox
Galley Microwave	None
Electrical	No GFCI
Lighting	Suitable
Water Maker	None
Ice Maker	None



Figure 95 Galley



*Figure 96 Galley Stove**Figure 97 Galley Stove*



Figure 98 Galley Oven



Figure 99 Ice Box



18 HEAD(S)

Location	Below Port
Sink	Single Stainless
Toilet	Manual Jabsco
Shower	None
Electrical	No GFCI
Lighting	Suitable
Sump	None



Figure 100 Head



19 ENGINE ROOM

Location	Below stairs
Cleanliness	Suitable
Engine Beds	Suitable
Stringers	Suitable
Bulkheads / Frames	Suitable
Pipe / Hose Routing	Suitable
Fire Suppression	None
Hatch Operation	Manual
Stuffing Box	Suitable, traditional style
Fuel Shutoff Valves	Suitable, on tank
Tank Ground	None
Ventilation	Suitable
Insulation	Suitable



Figure 101 Engine Compartment





Figure 102 Engine Compartment

20 BATTERIES

Number Starting	1
Type Starting	Cranking
Size Starting	Econopower 24 Series
Number House	4
Type House	Deep Cycle Golf Cart
Size House	6V 122min
Large Wiring	Suitable
Connection Guarding	Suitable, in containers, would advise rubber covers for positive terminal connections
Small Wiring	Suitable
Fuses 7-40-72	Suitable
Main Isolator Switches	Suitable
Secured	Suitable
Container	Suitable
Ventilation	Suitable
Charger	None





Figure 103 Starting Battery



Figure 104 House Batteries



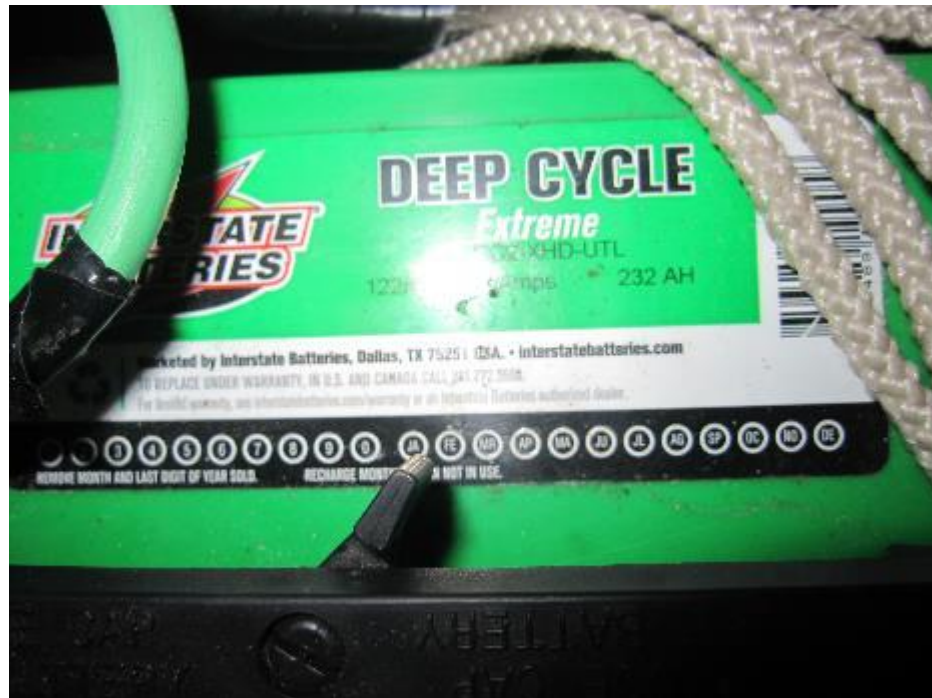


Figure 105 House Battery Specs



Figure 106 Battery Disconnects





Figure 107 Battery Disconnects

21 GENERATOR

Arrangement	None
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22 MAIN ENGINE(S)

Arrangement	Single
Fuel	Diesel
Manufacturer	Westerbeke
Size	4-107 4 cylinder
Horsepower	40 hp
Aspiration Type	Nat
Engine Serial #	107U40349B305
Engine Hours	Not powered up
Engine Mounts	Suitable
Exhaust Arrangement	Suitable
Exhaust Bellows	Suitable
Fuel Lines	Suitable
Fuel Filters	Suitable



Water Strainers	Suitable
Cooling System Type	Closed
Oil Filters	Suitable
Air Filters	Suitable
Belt Condition	Suitable
Engine Wiring	Suitable
Trans Manufacturer	Westerbeke
Model #	SA1D
Ratio	Not visible
Transmission Serial #	3K8939



Figure 108 Engine





Figure 109 Transmission Specs



Figure 110 Shaft Seal





Figure 111 Fuel Filter

23 MECHANICAL

Electric Bilge Pumps	Rule 1800 with float
Manual Bilge Pump	Suitable
Potable Water Pump	Suitable
Wash Down Pump	Suitable
Seacocks / Strainers	Suitable
Intakes Double Clamped	No, would advise double clamp below water line
Cooling Water Pump	None
Air Conditioner / Heat	None
Vacuuflush	Manual Pump
Black Water Tank	Aluminum 25 gallon
Hot Water Tank	SS Kuuma 6 gallon
Potable Water Tank	Aluminum 60 gallon (2 tanks)
Fuel Tanks	Aluminum, 25 gallon
Steering System	Suitable Direct connection
Throttle Controls	Suitable Cable

R: Recommend double clamp below water line through hulls.





Figure 112 Bilge Pump



Figure 113 Through Hull





Figure 114 Through Hull



Figure 115 Through Hull





Figure 116 Hot Water Tank

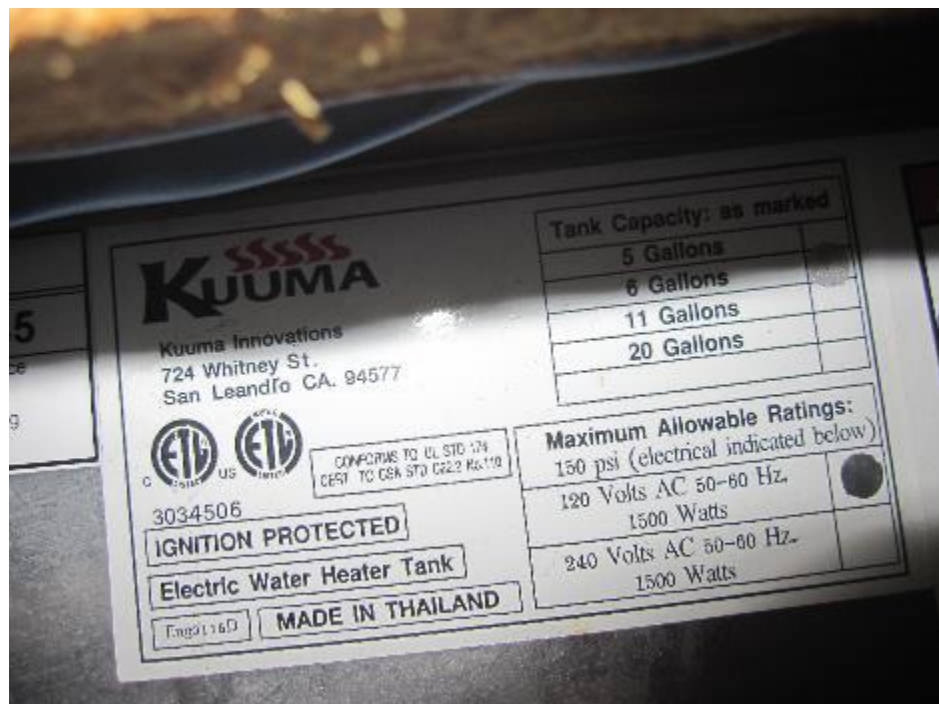


Figure 117 Hot Water Tank





Figure 118 Waste Tank



Figure 119 Hot Water Tank



24 SAFETY

Navigation Lights	Suitable
Radar Reflector	None
Depth Sounder	Autohelm Bidata
Sound Signaling Device	Suitable
Spotlight	None
Spare Anchor	Danforth 25
Spare Rode	Suitable, 5/8" 3 strand 200'
Fire Extinguishers	Suitable
Smoke Detector	None
CO Detector	None
Fume Detector	None
Propane Detector	No
Storage of Other Fuels	Propane in aft compartment
Flares	Suitable
Reboarding Ladder	Suitable
Life Ring	Suitable
Buoyant Line	Suitable
Life Jackets	None
Liferaft	None
Other Equipment	None

R: Some safety items have been removed as part of winter storage. Ensure all required safety equipment as per the Canadian Safe Boating Guide is onboard prior to sailing. Recommend installation of propane detector in galley. Although not required recommend installation of CO detector on vessels with engine compartment in cabin.





Figure 120 Manual Bilge Pump



Figure 121 Propane Locker





Figure 122 Life ring and Spare Anchor



Figure 123 Fire Extinguisher





Figure 124 Fire Extinguisher

25 RECOMMENDATIONS

The following list outlines the various recommendations made in this survey.

1. Deck is slippery when wet, recommend reapplication of non-slip.
2. No GFCI protection. Recommend installation of GFCI outlets.
3. Some safety items have been removed as part of winter storage. Ensure all required safety equipment as per the Canadian Safe Boating Guide is onboard prior to sailing.
4. Recommend installation of propane detector in galley.
ABYC "Gasoline and Propane Gas Detection Systems" Standard A-14, 14.8 suggests that "Sensors installed to detect LPG gas shall be located where vapors are likely to collect, as low as possible near the appliance."
5. Although not required recommend installation of CO detector on vessels with engine compartment in cabin.

26 VALUATION

Valuations are primarily determined through www.yachtworld.com using the North American market as a whole. Values vary considerably due to local market demands and significant premiums may be paid for freshwater vessels. Currency conversion is performed using www.xe.com Universal Currency Converter on the date of the survey. Valuation does not include any taxes or delivery fees.



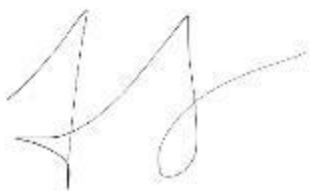
1974 Alberg 37	Victoria BC, Yawl rigged, similar condition, salt water
	\$28,000 CAD
1986 Alberg 37	Houston TX, Sloop rigged, Volvo engine installed 2003, saltwater use.
	\$35,000 USD =\$47,555 CAD
???? Alberg 37	Mississippi, Sloop rigged, similar condition, atomic gas engine
	\$21,000 USD =\$28,533 CAD

Valuation is intended for insurance and financing purposes only. It is not the intention of the surveyor for valuation to be used to influence purchase price.

Factors affecting this valuation are the many features this vessel offers for comfort and performance in this size. This is a serious big water boat with many strengths for the long haul and is heavily sought after by that sector of sailors. A freshly rebuilt diesel, newer sails and very little wood exterior wood makes this an easy boat to care for and should give many years of enjoyment with minimal maintenance. A few upgrades will make this vessel shine like a star.

It is the opinion of this surveyor that the valuation of this vessel is estimated at \$40,000 CAD

Prepared without prejudice,



Kurtis Mink

Canadian Coast Guard Trained 3rd Class Marine Engineer

Graduate of the Canadian Coast Guard College

Degree Nautical Science, Diploma Marine Engineering

Society of Naval Architects and Marine Engineers

Member of the American Boat and Yacht Council

Member of the Canadian Power Squadron

Captain Canadian Coast Guard Auxiliary

Safe Boating Instructor Boaterexam.com



Sailboat Specifications

DEFINITIONS

Hull Type:	Long Keel
Rigging Type:	Masthead Sloop
LOA:	37.17 ft / 11.33 m
LWL:	26.50 ft / 8.08 m
S.A. (reported):	646.00 ft ² / 60.02 m ²
Beam:	10.17 ft / 3.10 m
Displacement:	16,800.00 lb / 7,620 kg
Ballast:	6,500.00 lb / 2,948 kg
Max Draft:	5.50 ft / 1.68 m
Construction:	FG
Ballast Type:	Lead
First Built:	1967
Last Built:	1988
# Built:	248
Builder:	Whitby Boat Works Ltd. (CAN)
Designer:	Carl Alberg



Auxiliary Power/Tanks (orig. equip.)

Make:	Volvo
Model:	MD2B
Type:	Diesel
HP:	23
Fuel:	35 gals / 132 L

Accomodations

Water:	60 gals / 227 L
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Sailboat Calculations

DEFINITIONS

S.A. / Displ.:	15.82
Bal. / Displ.:	38.69
Disp: / Len:	403.02
Comfort Ratio:	39.80
Capsize Screening Formula:	1.59
S#:	1.05
Hull Speed:	6.90 kn
Pounds/Inch Immersion:	962.97 pounds/inch



Rig and Sail Particulars

[HELP](#)

I:	44.25 ft / 13.49 m
J:	14.00 ft / 4.27 m
P:	38.50 ft / 11.73 m
E:	17.50 ft / 5.33 m
S.A. Fore:	309.75 ft ² / 28.78 m ²
S.A. Main:	336.88 ft ² / 31.30 m ²
S.A. Total (100% Fore + Main Triangles):	646.63 ft ² / 60.07 m ²
S.A./Displ. (calc.):	15.83
Est. Forestay Length:	46.41 ft / 14.15 m

Sailboat Links

Designers:	Carl Alberg
Builders:	Whitby Boat Works Ltd. (CAN)
Associations:	Alberg 37 Owners
Products:	M&B SHIPCANVAS CO.
Download Boat Record:	PDF

Notes

The Mark I was built between 1967 - 1971.

The Mark II has less wood in the construction than the Mark I, employing instead a molded floor support, molded overhead liner and a fiberglass toerail.

Most boats were delivered with either the 23hp Volvo MD2B or the 27-hp MD 11C (MK II). A 40hp Westerbeke 4-107 was an option.

Yawl rig measurements:

I: 44.25'

J: 14.00'

P: 38.50'

E: 16.00'

PY: 18.00'

EY: 6.50'

Tot. working SA: 686 sq.ft.

Photo courtesy of Adam Hunt.



