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# **Catalina 42 Survey Report**



SAIL BOAT	Catalina 42		
HIN			
DATE			
REPORT NO.			









# **SAMPLE REPORT DO NOT COPY**

#### **INDEX**

Par	Particulars		
Sco	pe of Survey	4	
Rec	commendations	6	
1.	Hull.	7	
2.	Engine.	9	
	Propulsion.	10	
	Steering Gear.	11	
3.	Interior.	12	
4.	Galley.	13	
5.	Parts & Accessories.	14	
6.	Electrical.	15	
7.	Navigation & Radio Equipment.	17	
8.	Toilet, Plumbing & Water System	18	
9.	Tanks	20	
10.	Safety Equipment	21	
11.	Rigging.	22	
Me	asurements & Readings	24	
Con	ndition	25	
Valu	Valuation		
Sur	veyor's Certification	27	
Pho	ntos	28	

Report Completed By	Hatem Salama	Date	05.11.24
Signature	Water 5/h	ID Number	AVI 00325 IIMS : S1283
Person On Whose Behalf Inspection Carried Out	Owner : Mr.		
Report Summary Seen By	Owner : Mr.	Date	05.11.24
Place Of Survey			
Type Of Survey	Condition And Valuation Marine Survey.		

### Particulars:

Boat Name	
HIN	
Hull No.	
Year	
License No. / Exp Date	License not sighted.
Owner's Name	License not sighted.
Length Overall	43' 2"
Beam	13' 10"
Draft	4' 10"
Displacement	20,500 Lbs.
Boat Maker / Model	Catalina Yachts / C-42 MK II
Aux Power maker/model/Type	Yanmar / 4JH2E / Inboard
Hull Type / Material	Wing Keel / Fiberglass
Fuel Type	Diesel

#### Scope Of Survey

Acting at the request of Mr. the owner of sailboat Catalina 42, the surveyor did attend onboard the Catalina 42. Condition and valuation survey was performed on 5<sup>th</sup> of November, 2024 from 11:00 AM to 01:30 PM at

Out of water inspection and survey was conducted in order to determine the physical condition, estimated value of the vessel, boat's suitability and conformity with different standards as mandatory standards of (Canada Shipping Act, CSA 2001., Small Vessel Regulations, Construction Standard For Small Vessels, Transport Canada), and voluntary standards of (American Boat And Yacht Council – ABYC, National Fire Protection Association - NFPA). Mentioned regulations and standards have been used as guidelines in the conduct of this survey.

Boat's documents were not presented by owner at time of survey. Hull identification Number (HIN) verified on hull.

Hull, engine & propulsion, electronics, cables, interior, galley, plumbing, rigging, parts & accessories, navigation, and safety equipment, all have been visually inspected as found at time of the survey without disassembly or removal of any parts, such as fittings, screwed or nailed boards, anchor, chain, fixed partitions, instruments, clothing, spare parts or miscellaneous materials in bilges and lockers, and or any other fixed or semi fixed items, unless advised and removed by owner or operator. Inaccessible areas also precluded inspection. DC electronics were powered up only. No determination of stability characteristics or inherent structural integrity has been made.

This survey report represents the condition of the vessel on the above date, and is the unbiased opinion of the signed surveyor with no present or prospective interest in the vessel that is subject of this report, and I have no personal interest or bias with respect of the parties involved. It is not to be considered as inventory or a warranty either specified or implied.

This report should be considered as entire document. No single section is meant to be used except as part of the whole.

**Note:** During the survey engine was not started or loaded, and it is recommended and understood that Yanmar diesel engine to be surveyed by a qualified engine mechanic to determine the comprehensive condition of the engine, gears, pumps, heat exchanger, etc.

**Intended Users:** This survey is prepared for the exclusive use of Mr. who has requested it. This survey is not transferable to any other person or entity. The intended user of this report is the client and those lenders and underwriters considering financing or insuring this vessel for this client only.

#### STANDARDS USED IN THIS SURVEY:

#### **Mandatory Standards:**

- Canada Shipping Act (CSA2001).
- The Small Vessel Regulations.
- Transport Canada.

#### Standards adopted by Transport Canada:

- The American Boat And Yacht Council (ABYC).
- National Fire Protection Association NFPA 302: Fire Protection Standards For Pleasure And Commercial Motor Craft.

All have been used as guidelines in the conduct of this survey.

Transport Canada TP1332 and American Boat and Yacht Council (ABYC) standards where applicable. As of October 31, 2019, Transport Canada Marine Safety and Security (TCMSS) has published a policy on the acceptance of American Boat and Yacht Council (ABYC) standards in lieu of TP 1332 Construction Standards for Small Vessels. This policy is applicable to pleasure craft less than 24 meters and non-pleasure craft of not more than 15 gross tonnage constructed, manufactured, or rebuilt in, or imported into Canada.

#### **Moisture Meter and Scale Used In This Survey**



#### Recommendations

Sea Conquest Marine Surveys & Consultancy presents inspection findings as non-conformances, and recommendations in this regards.

Recommendations are given for information only for our client. Sea Conquest Marine Surveys & Consultancy believes that addressing the recommendations will provide a positive improvement in boat's standard.

Below is a list of the remarks and recommendations raised following the inspection. Any observations made during the inspection process are noted to provide further information regarding the boat status.

S.	Remarks	Recommendations
1	Anti corrosion anode plate on propeller shaft in old	Anode plates replacement is advised for galvanic corrosion
	condition and rusted.	protection.
2	Below water line seacock valves and shaft seal	Clamps replacement is advised.
	multiple stainless-steel clamps are rusted.	
3	DC overcurrent protection fuse is not available on	DC overcurrent protection fuse installation in the red
	the positive cable between charger/inverter unit and	positive cable as per device manual instructions.
	batteries.	
4	Safety equipment.	Safety equipment always to be complete and valid as per
		Transport Canada requirements.

#### 1. Hull

#### 1.1 General Hull Condition

Fiberglass mould construction mono hull, white gelcoat above water line with blue accent stripes. Hull above water line found to be smooth and fair in very good condition.

Low moisture levels were obtained from above water line area.

Blue antifouling coat below water line in good and serviceable condition, no indication of coat flaking or fading observed.

Hammer test carried out along the hull, found to be structurally sound, no proof of soft spots or damage evident with low moisture levels were mostly obtained from below water line where antifouling is applied.



PRIVATE INFO

#### 1.2 Bow / Stem

Bow area and stem line n good structure and cosmetic condition. Low moisture readings were obtained from below and above water line area.



#### 1.3 Keel

8,300 lbs. external lead wing keel well faired with hull keel sump, no indication of grounding or corrosion observed.

Keel bolts seen from where is accessible, while appear in good condition and rust free.



# 1.4 Transom Modern reversed type transom in good structural and cosmetic condition, low moisture readings obtained from transom panel. SAMPLE DO NOT COPY

#### 1.5 Deck

Balsa cored antiskid deck in solid condition, hammer test did not proof any soft spots or delamination, low moisture levels were mostly obtained from deck panel, slight moisture elevation detected at starboard side deck midship.

Recommendation: Starboard side deck fittings re-bedding is advised.



#### 1.6 Stringers / Bulkheads / Frames

Hull support and stringers inspected from where is accessible, found to be rigid, with low moisture levels.

#### 1.7 Rails / Pulpit /Lifelines

Stainless steel stanchions, pulpit, and double lifeline in serviceable condition.

#### 1.8 Bitts / Cleats / Pad Eyes / Hawse Pipes

Stainless steel open base cleats on deck in solid condition.

#### 1.9 Port Holes / Windows / Hatches

Lewmar Port holes, and hatch covers randomly inspected, locks and seals in good visual condition.

#### 2. Aux Power (Inboard Engine)

No. Of Engines	1
KW / HP	37.5 KW
Make	Yanmar
Model	4JH2E
Туре	Inboard
Serial Number	
Hours	

#### 2.1 General Engine Condition

Yanmar 4JH2E, 4 cylinder in line water cooled marine diesel engine.

Engine was not started or loaded at time of survey.

Recommendation: Engine to be inspected by qualified marine mechanic to determine the comprehensive condition of the engine.



#### 2.2 Transmission

Original Kanzaki direct drive model KM4A, gear ration 2.63.

Serial number 10534

Heavy rust and corrosion observed in shaft flange, replacement is advised.

#### 2.3 Engine Exhaust

Marine muffler and 3" wet exhaust hoses double clamped on ends.

#### 2.4 Fuel Lines

1 ½  $^{\prime\prime}\,$  marine grade fuel filling rubber hose double clamped on ends.

Type approval SAEJ1527 USCG A2

#### 2.5 Cooling System

Fresh water cooling system with heat exchanger.

Water cooling intake rubber hose passing through water strainer, not tested.

2.6 Engine Mounts and Beds

Adjustable engine mounts on each side of engine bolted on engine compartment stringers. **Heavy rust observed in engine mounts, replacement is advised.** 

2.7 Stuffing Box

Dripless type shaft seal.

Rubber bellow appears in good condition, **stainless steel clamps** are rusted.

Recommendation: Clamps replacement is advised.

Shaft seal to be inspected and monitored in water to confirm watertight integrity.



2.8 Ventilation

Inline electric blower and natural ventilation duct line available, not tested.

2.9 Bilges.

Dry and clean bilge spaces.

#### **Propulsion**

2.10 Propeller

Bronze 3 blades right-handed fixed propeller.

Propeller blades, lock and spinning unite are in good visual condition.



2.11 Anticorrosion Plates

Rusted anti corrosion anode plates on propeller shaft is rusted.

Recommendation: Anode plate replacement is advised.

#### **Steering Gear**

#### 2.12 Rudder

Skeg mounted rudder. Solid rudder panel in good structural condition, low moisture levels were obtained from rudder panel.



#### 2.13 Steering wheel

Steering wheel not installed at time of survey.

#### 2.14 Drive System

Radial steering drive system visually inspected from where is accessible.

Drive wheel, and steering wire appear in good condition.

Heavy rust and corrosion observed in rudder shaft coupling and bearings.

Recommendation: Rusted parts maintenance, or replacement as required, steering wire lubricating is advised.



#### 3. Interior

#### 3.1 Interior

Modern wooden finish interior and bulkheads inside accommodation space.

V berth closed cabin and forward toilet.

Galley located at port side of accommodation space, and aft toilet at starboard side. Aft cabin with access from starboard quarter.

Furniture, wooden flooring, drawers, cabinets, and upholstery are in good and clean condition.



#### 4. Galley

4.1 Stove

Princess stainless steel 3 burners propane fueled stove with oven, not tested.

4.2 Sink / Faucets

Stainless steel double sink and faucet, not tested.

Water and drain hoses are in good visual condition, no indication of water leak or damage observed.

4.3 Microwave

Panasonic microwave in galley space, not tested.

4.4 Refrigerator

Built in DC refrigerator in galley space, not tested

4.5 Type & Source Of Energy

Propane system.

Propane locker in aft deck compartment, and spare bottle in starboard side compartment.

Ventilation available.

DC cut off switch solenoid and regulator available, powered up only.

Swaged propane rubber hose in good visual condition.

Propane fume detector not sighted in galley space.



#### 5. Parts And Accessories

5.1	Fenders
	Multiple proper size fenders in serviceable condition.
5.2	Anchor
	Rocna 20 KG delta type galvanized anchor mounted on anchor roller on bow.  Maxwell vertical electric anchor windlass in chain locker, not tested.
5.3	Mooring Ropes
	Multiple mooring lines available in good visual condition.
5.4	Ladder
	Stainless steel folding ladder mounted on transom.
5.5	Canvas
	Cockpit canvas dodger and bimini top available, wear observed in canvas.
5.6	Sound System / TV
	Clarion CMD6 multimedia player not tested.  LG flat screen TV in salon, not tested.

#### 6. Electrical

#### 6.1 AC Power System

120V / 60HZ / 30 AMPS AC power system, source from shore power, or power inverter.

Original AC power distribution panel equipped with single pole main circuit breaker and reversed polarity indicator.

4 safety reset switches for port outlets, starboard outlets, water heater, and battery charger.

AC power system is equipped with source of power safety selector switch allows power from Shore line or power inverter.

AC power system not tested.



#### 6.2 DC Power System

12 V DC power system source through house battery bank. Original DC power distribution panel with DC voltmeter gauge. DC equipment, lighting and accessories safety reset switches. DC system randomly tested.



#### 6.3 Batteries

2 house battery banks, each bank consists of 2 X 12 V AGM batteries connected in parallel.

House batteries positive terminals are not protected with safety caps.

Recommendation: House batteries positive terminals to be covered and protected with safety nonconductive shields.

12 V lead acid engine cranking battery secured in acid proof compartment.





#### 6.4 Batteries switches

Engine battery isolation switch available.

Engine battery parallel switch available.

Perko house dual batteries isolation switch.

# 6.5 Battery Charger / Inverter

Professional Mariner Promatic 30 amps 3 banks automatic battery charger available, not tested.

DC overcurrent protection available.

Battery charger power supply through safety reset switch on AC power panel.

Magnum Energy Magna Sine battery charger/power inverter unit, not tested

AC outlet : not verified. DC output : Not verified.

AC power output is protected with 30 amps main circuit breaker.

DC overcurrent protection fuse connected on the black negative cable.

Recommendation: DC overcurrent protection fuse to be relocated and installed on the

power inverter red cable as per device manual instructions.

#### 6.6 Solar Charger

Victron Energy MPPT 100 / 50 smart solar charger controller located in port side aft deck compartment.

3 BP solar panels model SX3140J available.

#### 6.7 Electrical outlets / Ground Fault Circuit Interrupter (GFCIs)

2 electrical outlet circuits GFCI protected.

Polarity and GFCIs not tested.

#### 6.8 Shore Power Connections

125V / 30 AMPS shore power inlet not tested.

Shore power inlet is protected with single pole local shoreline circuit breaker.

# 7. Navigation & Radio Equipment

7.1	Navigation Lights
	Combined side navigation lights mounted on pulpit in operational condition.  Stern White navigation light in operational condition.  All round anchor light available on mast not tested.
7.2	Navigation System
	Raymarine C90 marine integrated system and chart plotter on helm station, powered up only.
7.3	Magnetic Compass
	Ritchie binnacle mount magnetic compass on helm station.
7.4	VHF / Radios
	Standard Horizon Matrix GX2100 marine VHF with DSC capability not tested.
7.5	Auto Pilot
	Raymarine auto pilot panel on helm station, powered up only.
7.6	Speed / Depth Panels
	Raytheon ST 60 Tridata speed and depth finder panel on helm station, powered up only.
7.7	Wind Indicator
	Raymarine ST60+ wind direction and speed indicator on helm station, not tested.
7.8	Sound Signal / Horn
	Air horn bottle available.

# 8. Toilet, Plumbing & Water System

Toilet Forward
Jabsco Twist N Lock manual marine toilet, not tested. Built in vanity sink and stainless steel faucet, water and drain lines in good visual condition, no indication of water leak or damage observed.
Toilet Aft
Jabsco Twist N Lock manual marine toilet, not tested. Built in vanity sink and stainless steel faucet, water and drain lines in good visual condition, no indication of water leak or damage observed.
Bilge Pumps
Rule 2000 gallons per hour electric bilge pump connected to automatic floating switch in center bilge space, pump powered up manually and automatically.  Whale Gusher Manual bilge pump not tested.
Fresh Water Pump
Jabsco Par Max 3.5 gallons per minute, 60 PSI wash down pump.
Deck Wash Pump
Jabsco Par Max 4 gallons per minute, 40 PSI freshwater pump, not tested.  Deck wash hose water fitting in chain locker is corroded, replacement is required.
Waste Discharge Pump
Jasco self-priming macerator waste discharge pump, not tested.
Sump Pumps
Jabsco Par Max 3 gallons per minute shower sump pump in each toilet, not tested.
Water Heater Tank
Kuuma 6 gallons marine water heater tank, not tested.

#### Seacocks / Thru hulls

8.9

Engine cooling water intake plastic ball valve seacock in serviceable condition.

Galley sink drain line plastic ball valve seacock in serviceable condition.

Aft Toilet sink drain line plastic ball valve seacock in serviceable condition.

Aft toilet head water intake plastic ball valve seacock in serviceable condition.

Aft toilet shower sump pump discharge plastic ball valve seacock in serviceable condition.

Forward Toilet sink drain line plastic ball valve seacock in serviceable condition.

Forward toilet head water intake plastic ball valve seacock in serviceable condition.

Forward toilet shower sump pump discharge ball valve seacock in serviceable condition.

Forward toilet waste overboard discharge line plastic ball valve in serviceable condition.

Note: Multiple seacock hoses clamps are rusted, replacement is advised.













Below water line sensors thru hull openings in good visual condition, no indication of water leak or damage observed, emergency cap available.



Recommendation: Seacock valves and below water line thru hull openings to be tested and monitored in water to confirm watertight integrity.

#### 9. Tanks

#### 9.1 Fuel Tank

38 gallons aluminum fuel tank in aft cabin seen from where is accessible, ventilation, hoses, and fittings in good visual condition, and rust free.

Tank's grounding available.

Tank is equipped with quick shut off valve **found to be seized**; **maintenance is advised.** 



#### 9.2 Fresh Water Tank

Boat is equipped with 2 poly fresh water tanks in salon underflooring. Tanks were not accessible.

#### 9.3 Waste Holding Tank

Waste holding tank in V berth cabin enclosed compartment.

Note: Tanks and tanks fittings were subject to visual inspection only, tanks were not pressurized or tested during the survey.

# 10. Safety Equipment

10.1	Life Jackets
	Multiple life jackets available.
10.2	Pyrotechnics / Flares
	Flare gun flares expired in 2015
10.3	Waterproof flashlight
	Available.
10.4	Life Buoy
	24 inches lifebuoy with lifeline available.
10.5	Fire Extinguishers
	3 portable fire extinguishers class ABC.
	Recommendation: Fire extinguishers dates and validity to be checked accordingly.
10.6	
10.6	Fire Buckets
	Not available. Recommendation : 2 approved type fire buckets are required.
10.7	Fire Axe
	Available
10.8	Carbon Monoxide / Smoke Detectors
	Kiddie battery operated smoke detector is available in salon. CO2 detector is required for all boats as per ABYC standards.

#### 11. Mast & Rigging

#### 11.1 Masts / Mast Step

Masthead sloop rigging vessel, aluminum mast and double set of spreaders inspected from deck level only while mast was stepped and rigged.

Mast and fittings in good visual condition and rust free, no indication of stress marks or damage was noted at time of survey.

Aluminum mast keel step well secured with 4 bolts, in solid condition.



# Boom Gooseneck

Aluminum boom, and goose neck in good condition and rust free.



#### 11.3 Vang

Stainless steel rigid spring vang, and vang bracket in good visual Condition, not tested.



#### 11.4 Chain plates / Turning Buckles

Stainless steel chain plates in solid condition, signs of surface rust and oxidation observed in turning buckles.



#### 11.5 Sails

Main Sail / Fore Sail

Not inspected.

11.6	Winches
	2 Lewmar 54 speed rigging winches.
	2 Lewmar 40 speed rigging winches.
	Rigging winches are in serviceable condition, periodical maintenance is advised.
11.7	Sheaves / Forestays / Aft stays
	Stainless steel braided wires and wires terminals checked from where is accessible.
	Signs of surface rust observed in wire terminals
	Recommendation : Shrouds to be monitored and replaced as required.
11.8	Furling Drum
	Headline stay is equipped with Schaefer aluminum furling drum, not tested.
11.9	Rigging Clutches
	4 rope stoppers on each side of companion way in operational condition.
T	
11.10	T Tracks
	Aluminum T racks on each side on deck, in serviceable condition.
11.11	Lightning Protection Air Terminal / Conductors / AWG
	Not available.

# **Measurements & Readings**

	Item	Location	Reading	Remarks
1	Moisture	Bow area	Low	Below water line
2	Moisture	Midship area	Low-Moderate	Below water line
3	Moisture	Stb Quarter	Low	Below water line
4	Moisture	Port quarter	Low	Below water line
5	Moisture	Keel Sump	Low	
6	Moisture	Rudder	Low	
7	Moisture	Hull above water line	Low	
8	Moisture	Deck in general	Low	Slight moisture elevation at starboard side deck midship
9	Moisture	Cockpit deck	Low	orac desk masnip
10	Moisture	Transom	Low	
11	Anodes Continuity	Propeller shaft	No continuity	Replacement required.







Rudder Midship Bow area



Deck general moisture readings

Note: Moisture meters readings are only indicators, surface coating and antifouling bottom paint may greatly affect the readings

#### CONDITION

#### STATEMENT OF OVERALL VESSEL RATING OF CONDITION

It is the surveyor's experience that develops an opinion of the overall vessel rating of condition after complete survey has been performed and the findings organized in a logical manner.

The following is the accepted marine grading system of condition:

#### • EXCELLENT (BRISTOL) CONDITION

Is the vessel that is maintained in mint or Bristol fashion-usually better than factory new-loaded with extras- a rarity.

#### ABOVE AVERAGE CONDITION

Has had above average care and is equipped with extra electrical and electrical gear.

#### AVERAGE CONDITION

Ready for sale requiring no additional work and normally equipped for her size.

#### • FAIR CONDITION

Requires usual maintenance to prepare for sale.

#### POOR CONDITION

Substantial yard work required and devoid of extras.

#### • RESTORABLE CONDITION

Enough of hull and engine exists to restore the boat to usable condition.

As a result of my inspection, as shown in the systems and finding & recommendations section, my opinion is

OVERALL VESSEL RATING:	

#### **VALUATION**

The **fair market value** is the most probable price in terms of money which the vessel should bring in the competitive and open market under all condition requisite to a fair sale, the buyer and seller each acting prudently, knowledgeable, and assuming the price is not affected by undue stimulus.

Values are dependent on the limiting conditions and assumptions noted in the report. These values are statements of opinion. No guarantee can be given that these opinions of value will be sustained, or they will be realized in an actual transaction.

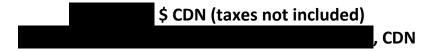
Price study and statistics in Canadian dollars carried out based on well know sources and widely considered by marine industry.

Currency Rate used

S.	SOURCE	WEBSITE	BOAT	MODEL	LOWEST	HIGHEST	AVERAGE	REMARKS
				YEAR	PRICE	PRICE	PRICE	
1	NADA	www.jdpower.com	Catalina 42					
2	BUC	www.bucvalu.com	Catalina 42					Price based on Great Lakes
								region, Buc Condition.
3	YACHT	www.yachtworld.com	Catalina 42					Asking Prices 6 boats in USA
	WORLD							
4	BOAT	www.boatdealers.ca	Catalina 42					Asking Price in BC
	DEALERS CA							



**Estimated fair market value** after consideration of the information, the extended of the necessary adjustments and condition of the vessel, its your surveyor's opinion that the fair market value of the subject vessel is.



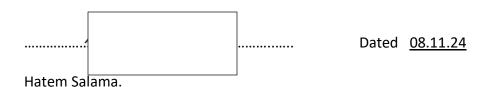
#### SURVEYORS CERTIFICATION

I certify that, to the best of my knowledge and belief:

- The statements of the fact contained in this report are true and correct.
- The report analyses, opinions, and conclusions are limited only by the reported assumptions and limiting conditions, and are of my personal, unbiased professional analyses, opinions and conclusion.
- I have no present or prospective interest in the vessel that is the subject of this report, and I have no personal interest or bias with respect of the parties involved.
- My compensation is not contingent upon the reporting of a predetermined value or direction in value that favors the cause of the client, the amount of the value estimate, the attainment of stipulate results, or the occurrence of a subsequent event.
- I have made a personal inspection of the vessel that is subject of this report.

This report is submitted in good faith without prejudice.

#### **Attending Surveyor**



eCMID Accredited Vessel Inspector, AVI00325.

Member of The International Institute Of Marine Surveying, IIMS Canada.

Member of The International Institute Of Marine Surveying, IIMS UK.

Member of The Nautical Institute. FNI.

Member of The American Boat and Yacht Council (ABYC).

Member of The Canadian Board of Marine Underwriters.

Member of the international Association of Marine Investigators.

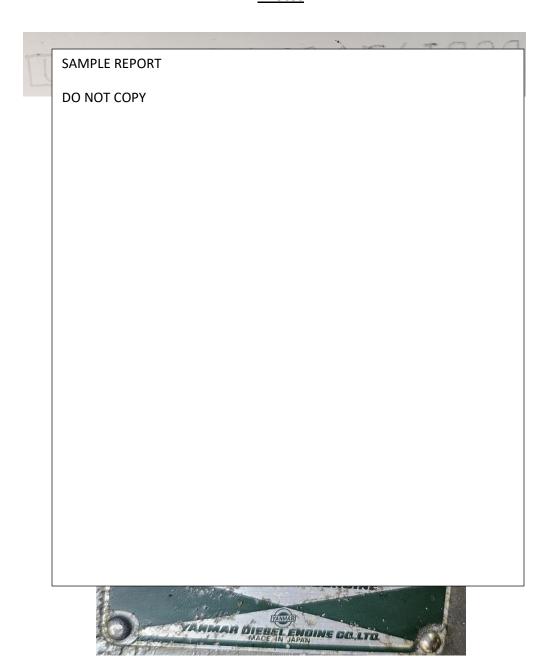
Member of the Yacht Designers & Surveyors Association (YDSA).

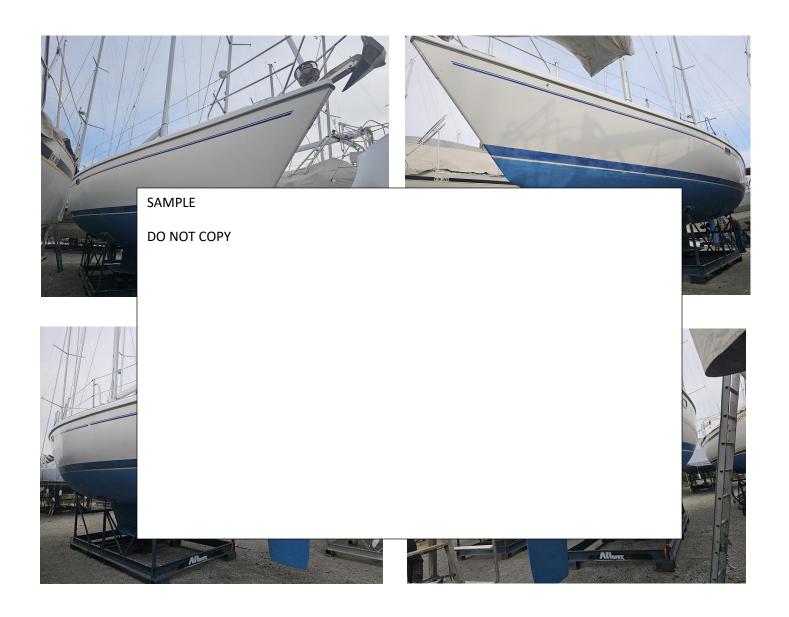
Transport Canada appointed vessels tonnage measurer.

Former Master Mariner Unlimited.

ISO QMS Auditor/Lead Auditor.

# **Photos**

















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