



MARITIME ENGINEERS PTY LTD

A Member of James Fisher and Sons plc

CONDITION, LOSS PREVENTION AND VALUATION SURVEY

SMALL COMMERCIAL CRAFT

FILE REF. NO.	JP1042/20
CLIENT	HAMILTON MURPHY
VESSEL NAME	SON OF SAM
MAKE/ YEAR OF BUILD	X -YACHT, XP-50 / 2013
VESSEL TYPE	RECREATIONAL SAILING YACHT
WHERE SURVEYED	CULLEN BAY MARINA, DARWIN, NT
SURVEYOR	JUAN PAZO
INSPECTION DATE	04/03/2022



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"SON OF SAM"

www.maritime-engineers.com.au



MARITIME ENGINEERS PTY LTD
A Member of James Fisher and Sons plc

“SON OF SAM”

OUR REF. NO.: JP1042/20
DATE: 15 MARCH 2022

TABLE OF CONTENTS

A.	INTRODUCTION	3
B.	FINDINGS AND RECOMMENDATIONS	4
C.	SURVEYOR'S COMMENTS	4
D.	OSMOSIS DISCLAIMER	5
E.	WAIVER	5
1	PARTICULARS	6
2	CERTIFICATION	6
	2.1 MAIN CERTIFICATION AND DOCUMENTS	6
	2.2 EQUIPMENT CERTIFICATES	6
	2.3 STABILITY BOOKLET	6
3	CAPACITIES	7
4	NAVIGATIONAL EQUIPMENT	7
5	MACHINERY & MACHINERY SPACES	8
	5.1 MACHINERY	8
	5.2 AUXILLIARY MACHINERY	9
	5.3 BILGE SYSTEMS	9
	5.4 ELECTRICAL	9
	5.5 CONDITION	9
	5.6 SAFETY	9
	5.7 STEERING GEAR	10
	5.8 DECK MACHINERY	10
6	WHEELHOUSE & ACCOMMODATION	11
	6.1 WHEELHOUSE	11
	6.2 CABINS	11
	6.3 MESS ROOMS	11
	6.4 WASHROOMS/WC	11
	6.5 GALLEY	11
7	HULL, DECKS AND SUPERSTRUCTURE	12
	7.1 HULL ABOVE WATERLINE	12
	7.2 DECKS	12
	7.3 COMPARTMENTS	12
	7.4 TANKS OR VOIDS	12
	7.5 INTERNAL STRUCTURE	13
	7.6 SUPERSTRUCTURE	13
	7.7 STAIRWAYS, LADDERS	13
	7.8 GUARD RAILS AND SAFETY CHAINS	13
8	ANCHORING & MOORING SYSTEMS	13
9	WATERTIGHT INTEGRITY	14
10	EXTERNAL BELOW WATERLINE (NA – AFLOAT SURVEY)	15
11	LIFESAVING	15
	11.1 EPIRB	15
	11.2 LIFERAFTS	16
	11.3 LIFEBUOYS	16
	11.4 LIFE JACKETS	16
	11.5 PYROTECHNICS	16
	11.6 MEDICAL EQUIPMENT	16
	11.7 FIRE AND SAFETY PLAN	16
12	FIRE SAFETY	16
	12.1 STRUCTURAL FIRE PROTECTION	16
	12.2 FIRE PUMP, HOSES & NOZZLES	16
	12.3 PORTABLE FIRE EXTINGUISHERS	16



MARITIME ENGINEERS PTY LTD
A Member of James Fisher and Sons plc

“SON OF SAM”

OUR REF. NO.: JP1042/20
DATE: 15 MARCH 2022

12.4	ENGINE ROOM FIXED FIRE SYSTEM	17
12.5	FIRE DETECTION SYSTEM	17



MARITIME ENGINEERS PTY LTD
A Member of James Fisher and Sons plc

“SON OF SAM”

OUR REF. NO.: JP1042/20
DATE: 15 MARCH 2022

A. INTRODUCTION

This is to Certify that the undersigned Marine Surveyor from Maritime Engineers Pty Ltd, acting on instructions from Hamilton Murphy, attended on board the sailing yacht “SON OF SAM” whilst afloat at the Cullen Bay Marina, Berth G11, Darwin NT, on 04/03/2022 to conduct a Condition, Loss Prevention and Valuation Survey.

The vessel is a single round chine, mono hull. Decks have straight sheer and slight camber. The vessel is a single screw recreational sailing yacht constructed of GRP with underdeck accommodation and general set up for ocean going navigation.

Type of Risk	Level of Risk			Explanation
	Low	Moderate	High	
Fire Risk	✓			Dry bilges. Adequate fire extinguishers.
Watertight Integrity	✓			Sound condition of SW pipes and seacock valves.
Structural Integrity	✓			Where accessible noted in sound condition.
Risk to Personnel		✓		Care to be taken when sailing at sea.
Environmental Risk	✓			Dry bilges

The vessel is suitable for its intended use and area of operation.

The vessel is regarded as an acceptable insurable risk at the value shown in attached Certificate of Valuation.



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“SON OF SAM”

OUR REF. NO.: JP1042/20
DATE: 15 MARCH 2022

B. FINDINGS AND RECOMMENDATIONS

Defects are prioritized as follows:

- HIGH (H) Breach of regulation, safety risks to the vessel or personnel. Requiring immediate action or an acceptable plan of action.
- MEDIUM (M) Safety failure – not an immediate threat to vessel or personnel. Unless otherwise stated, to be addressed within 3 months.
- LOW (L) Observation. Constructive advice to be considered for improvement.

<u>Item</u>	<u>Report Ref</u>	<u>Found</u>	<u>Recommendation</u>	<u>Category</u>
1.		Yacht is showing some signs of limited recent activity. Marine growth is starting the develop in the underwater hull.	Propeller and rudder to be cleaned from marine growth prior to the next sail.	L
2.		No records of engine maintenance or testing of the navigation gear.	Prior to the next sail all machinery, deck equipment and navigation equipment to be tested and service due to potential extended period of inactivity.	L
3.	7.3	Signs of superficial rust on sea cock valves.	Sea cock valves and SW connections to be serviced at the next docking.	L
4.	11	Lifesaving equipment not inspected at the time of attendance.	Prior to the next navigation the safety gear is to be serviced.	L

C. SURVEYOR'S COMMENTS

The “SON OF SAM” was surveyed while afloat at Cullen Bay marina, Darwin.

The yacht was found in general satisfactory condition. No signs of damage or degradation were noted.

The yacht appears to have been stationary for some period. The underwater hull is noted to be starting to develop marine growth. No machinery or electronic gear were tested during the survey.

Where accessible the structure was noted to be sound. Electrical installation and gear noted to be professionally installed. Sea water pipes noted in sound condition.



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“SON OF SAM”

OUR REF. NO.: JP1042/20
DATE: 15 MARCH 2022

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OUR REF. NO.: JP1042/20
DATE: 15 MARCH 2022

D. OSMOSIS DISCLAIMER

It should be noted that all polyester resin GRP hulls are permeable to seawater and over time moisture will enter the laminate structure.

The development of "osmosis" from this action is dependent on the quality of moulding at construction and as such this office gives no warranty against "osmosis" occurring in the future.

E. WAIVER

This report is issued without prejudice to any or all the concerned parties with reservations as to information not made available, inaccessible, or hidden at the time of survey and neither the Company nor the Undersigned shall be held liable whatsoever for any act, error, omission or default in connection therewith.

No operational tests of vessel's machinery or equipment are conducted in the course of this survey unless specifically requested by the client.

This report shall not be used for pre-purchase negotiations or for the purposes of a sales agreement being conditional upon the contents of this survey report.

This valuation remains valid for 90 days from the date of assignment and is pendent on the vessel complying with Transport survey Status.

Juan Pazo
Attending Surveyor
Maritime Engineers Pty Ltd

Reviewed by: MS 11/03/2022 Approved by: JP 14/03/2022
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OUR REF. NO.: JP1042/20
DATE: 15 MARCH 2022

1 PARTICULARS

<u>No.</u>	<u>Description</u>	<u>Details</u>
1	Vessel name	SON OF SAM
2	Previous name	-
3	Vessel type	Recreational sailing yacht
4	Official No.	862870
5	Call sign	VNZ2881
6	Ownership details	
7	Length (OA)	15.57 metres
8	Beam	4.43 metres
9	Draft	2.65 metres / 3.00 metres
10	NSCV Class	NA – recreational yacht
11	Year of build	2013
12	Where built	X-Yachts, Denmark
13	Permitted area of operation	Design Category A. Ocean going
14	No. Permitted to carry	Crew: 18 SP: - Pax: -
15	Confirm H&M or O.N. by digital image	Yes

2 CERTIFICATION

Are the following certificates issued? Please remark if they are out of date, not endorsed or have any other anomaly:

<u>No.</u>	<u>Description</u>	<u>Issued by</u>	<u>Issue date</u>	<u>Expiry</u>	<u>Remark</u>
2.1 MAIN CERTIFICATION AND DOCUMENTS					
1	Registration Certificate	Australia	2013	-	Not sighted, ON 862870
2	Survey Certificate	-	-	-	NA – recreational yacht
3	Stability Book	-	-	-	NA – recreational yacht
4	Radio Licence	-	-	-	NA – recreational yacht
2.2 EQUIPMENT CERTIFICATES					
1	Portable Fire Appliances	-	-	-	NA – recreational yacht
2	Engine Smothering System	-	-	-	NA – recreational yacht
2.3 STABILITY BOOKLET					
1	Who approved and what date?	NA – recreational yacht			
2	What Survey Class?	NA – recreational yacht			
3	Restrictions?	NA – recreational yacht			



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“SON OF SAM”

OUR REF. NO.: JP1042/20
DATE: 15 MARCH 2022

3 CAPACITIES

No.	Description	Details
1	Fuel Tanks	300 litres
2	Fresh Water Tanks	550 litres and 30 litres hot water tank
3	Sewage Tanks	Two (2) 50 litres tanks.
4	Freezers	In built fridge freezer. 130 litres

Check Box Legend

Check	Meaning
Yes	Self Explanatory
No	Self Explanatory
N/A	Not Applicable
SR	See Remark

4 NAVIGATIONAL EQUIPMENT

Is the following equipment fitted and functional?

The following items of equipment were either observed in operation or stated by the Vessel Operator to be functional:

No.	Description	Check	Remark
1	Radar	No	-
2	HF radio	No	-
3	VHF radio	Yes	Icom IC-M604
4	Satellite phone	Yes	Iridium system
5	GPS	Yes	B&G
6	Chart plotter	Yes	B&G
7	EPIRB	SR	Not sighted
8	AIS	Yes	Class B
9	Echo sounder	Yes	B&G
10	Auto pilot	Yes	B&G
11	Search lights	No	
12	PA/Loudhailer	No	
13	Clear view	NA	
14	Sonar	No	
15	Other equipment	Yes	Four (4) B&G sailing instruments at the base of the mast



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“SON OF SAM”

OUR REF. No.: JP1042/20
DATE: 15 MARCH 2022



TRANSOM AND COCKPIT



COCKPIT



MAIN ENGINE



SAIL DRIVE UNIT

5 MACHINERY & MACHINERY SPACES

No.	Description	Check	Remark
5.1 MACHINERY			
1	Number and manufacture of main propulsion engines	SR	Volvo Penta marine Diesel engine. Turbo-charged
2	Engine Model/ KW Power	SR	D2-75F
3	Engine Hours	SR	Not provided
4	Gearbox Manufacturer	SR	Sail-drive type- Volvo Penta
5	Gearbox model	SR	150S-B
6	Number and type of auxiliary diesel alternators	SR	No auxiliary generator. Vessel provided with removable small set of solar panels.
7	Generator Engine Hours	NA	



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“SON OF SAM”

OUR REF. NO.: JP1042/20
DATE: 15 MARCH 2022

No.	Description	Check	Remark
8	Is the machinery in satisfactory condition?	SR	Visual inspection noted satisfactory. No operational check carried out. No records of recent used noted.
5.2 AUXILLIARY MACHINERY			
1	Engine Driven Bilge Pump/ Deckwash	No	
2	Electric Driven Bilge/ Deckwash	Yes	
3	DC Powered Bilge Pumps	Yes	
4	Hydraulic Pumps	Yes	Backstay hydraulic adjuster
5	Electric Pumps circulating	Yes	Bilge and FW system
5.3 BILGE SYSTEMS			
1	Are bilge alarms fitted in compartments with SW systems?	No	
2	Is there a means of preventing back flooding?	Yes	Discharge clear above the waterline and check valve
3	Are the bilges clean, low liquid levels?	Yes	Dry
4	Are bilge alarms operable?	NA	
5	Is the bilge system satisfactory?	Yes	Portable submersible pump also available.
5.4 ELECTRICAL			
1	Are cables appropriately secured?	Yes	Professional installation.
2	Are switchboards and other items of electrical equipment protected from water spray?	Yes	
3	Are batteries covered or prevented from short circuit across the terminals?	Yes	
4	Does the electrical installation appear satisfactory?	Yes	Victron inverter.
5	Is bonding satisfactory?	Yes	
5.5 CONDITION			
1	Are seawater pipes in good condition?	Yes	
2	Are flexible seawater hoses double clamped?	Yes	
3	Are engine mounts sound?	Yes	
4	Are fuel systems in good order and leak free?	Yes	
5	Are exhaust systems free of leaks?	Yes	Wet exhaust
6	Are exhaust flaps fitted?	NA	
7	Is there an exhaust back flood risk?	No	Wet exhaust with raiser
5.6 SAFETY			
1	Guards fitted on machines?	Yes	Dedicated engine compartment.
2	Remote fuel shut offs operational?	Yes	
3	Gauge glass closing devices operational?	NA	
4	Engine room ventilation satisfactory?	Yes	



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“SON OF SAM”

OUR REF. NO.: JP1042/20
DATE: 15 MARCH 2022

No.	Description	Check	Remark
5	Labelling and signage adequate?	Yes	
6	Are exhausts well insulated?	Yes	Wet exhaust
5.7 STEERING GEAR			
1	System in good order, free from leaks?	Yes	
2	Arrangements for emergency steering?	No	
3	Means of communications satisfactory?	NA	
4	Are rudder stops satisfactory?	Yes	
5.8 DECK MACHINERY			
1	Windlass details	SR	Electric anchor windlass
2	Details of Deck Machinery	SR	1. Full rigging set, see supplement report section 2. multi-function transom with garage for rib storage 3. Folding table in cockpit 4. Rib tender boat with 4 HP Suzuki outboard 5. Bow thruster controls in cockpit
3	Equipment in good working order?	Yes	Visually in satisfactory condition. Not tested.
4	Appropriately guarded?	Yes	
5	Controls adequately labelled?	Yes	



ACCOMMODATION



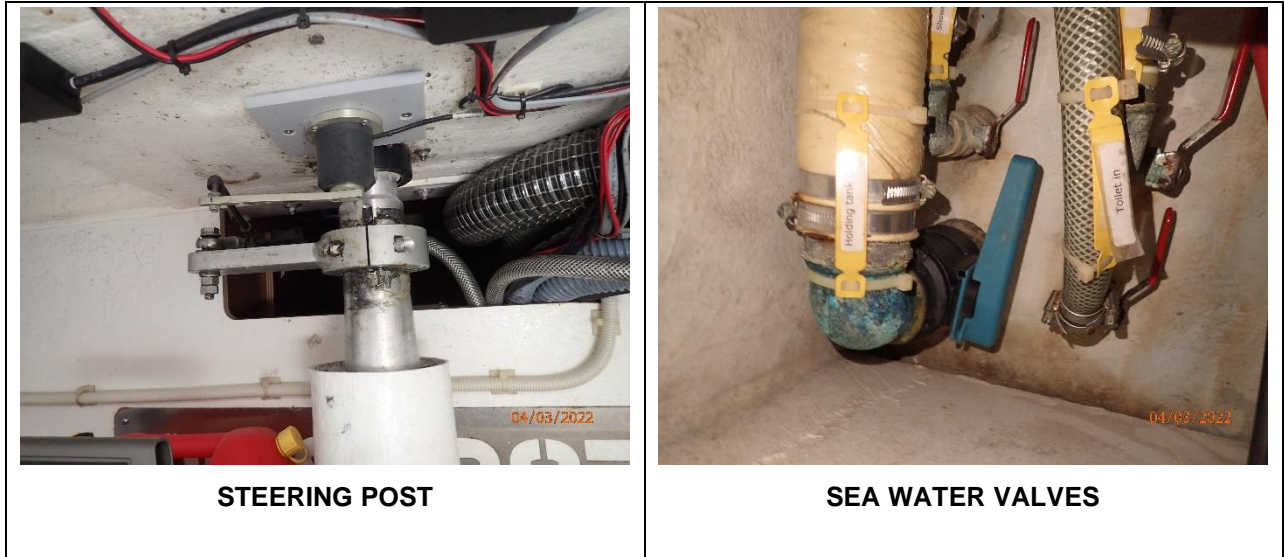
FORE CABIN



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“SON OF SAM”

OUR REF. NO.: JP1042/20
DATE: 15 MARCH 2022



STEERING POST

SEA WATER VALVES

6 WHEELHOUSE & ACCOMMODATION

No.	Description	Check	Remark
6.1 WHEELHOUSE			
1	Is air conditioning fitted?	NA	Open cockpit
2	Is there satisfactory vision for navigation?	Yes	
3	Number of helm stations?	SR	Two (2) steering wheels
6.2 CABINS			
1	Is air conditioning fitted?	SR	Portable air con unit
2	Number of cabins/ berths?	SR	3 double cabins
3	Total number of berths?	SR	6
4	Are fire detectors fitted in cabins?	No	
5	Are cabins clean?	Yes	
6.3 MESS ROOMS			
1	Seating capacity?	SR	8
2	Appliances?	SR	Upholstered bench seating
3	TV, video, DVD supplied?	SR	Sound system
6.4 WASHROOMS/WC			
1	How many showers fitted?	SR	2
2	Number of toilets?	SR	2
3	Are the spaces clean?	Yes	
6.5 GALLEY			
1	Stove/ Range	Yes	3 burner stove top gas
2	Microwave oven	Yes	
3	Refrigerator	Yes	Mini fridge



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DATE: 15 MARCH 2022

No.	Description	Check	Remark
4	Freezer	Yes	Inbuilt 130 litres
5	Other Appliances	SR	Basic set up
6	Exhaust fan operating and clean?	NA	
7	Condition of benches satisfactory?	Yes	
8	Condition of cupboards satisfactory?	Yes	
9	Is there a fire blanket?	Yes	
10	Is there a fire extinguisher?	Yes	
11	If an LPG stove – is a gas detector fitted?	Yes	Not tested at the time of attendance
12	Is LPG system certified?	Yes	Dated 07/2020

7 HULL, DECKS AND SUPERSTRUCTURE

No.	Description	Check	Remark
7.1 HULL ABOVE WATERLINE			
1	Is the hull free of damage?	SR	Where accessible no damages noted
2	Free of significant corrosion?	Yes	GRP hull
3	Are the fenders/ sponsons satisfactory?	Yes	Inflatable type fenders
4	Condition of the coatings?	SR	Satisfactory
7.2 DECKS			
1	Are decks in satisfactory condition?	Yes	
2	Are the decks coated with non slip coatings?	SR	Teak decking
3	Are trip hazards marked?	Yes	
4	Are ladders and stairways satisfactory?	Yes	
5	Are bulwarks in satisfactory condition?	Yes	
6	Are air vents operational?	Yes	
7.3 COMPARTMENTS			
1	Are below deck compartments in satisfactory condition?	Yes	
2	List any compartments not inspected	SR	Some lower bilge sections and fore peak.
3	Condition of the internal coatings?	SR	Satisfactory
4	Condition of hull valves?	SR	Satisfactory. Early signs of superficial rust.
7.4 TANKS OR VOIDS			
1	List any tanks or voids inspected	SR	Partial external inspection of Fuel and FW tanks.
2	Are the compartments free of structural damage?	SR	Where accessible noted in satisfactory condition
3	Are compartments free of corrosion?	SR	Where accessible noted in satisfactory condition
4	Are fittings such as vents, fillers, sounding pipes in satisfactory condition?	SR	Where accessible noted in satisfactory condition

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“SON OF SAM”

OUR REF. NO.: JP1042/20
DATE: 15 MARCH 2022

No.	Description	Check	Remark
7.5 INTERNAL STRUCTURE			
1	Hull plate/laminate satisfactory?	SR	Where accessible noted in satisfactory condition
2	Frames intact?	SR	Where accessible noted in satisfactory condition
3	Stringers intact?	SR	Where accessible noted in satisfactory condition
4	Engine girders intact?	SR	Where accessible noted in satisfactory condition
5	Bulkheads sound?	SR	Where accessible noted in satisfactory condition
6	Deck underside structure sound?	Yes	
7.6 SUPERSTRUCTURE			
1	Is the superstructure in satisfactory condition?	NA	
2	Are the wheelhouse windows in good condition and structurally sound?	NA	Open cockpit
3	Are the side and aft windows in satisfactory condition?	Yes	
4	Is a flying bridge fitted?	NA	
5	Is a bimini fitted?	NA	
6	Is a canopy fitted? Give details	NA	
7.7 STAIRWAYS, LADDERS			
1	Do stairways appear satisfactory?	Yes	
2	Do ladders appear safe?	Yes	
3	Do areas requiring to be accessed have a safe means of access?	Yes	
7.8 GUARD RAILS AND SAFETY CHAINS			
1	Are guard rails satisfactory?	Yes	
2	Are safety chains in use and satisfactory?	Yes	

8 ANCHORING & MOORING SYSTEMS

No.	Description	Check	Remark
1	What number and type of anchors fitted?	SR	25 kg Delta anchor
2	What are the anchor cable arrangements?	SR	50 metres of 10 mm chain
3	Where are the anchors stowed?	SR	Bowsprit
4	Is a mooring post/ towing point fitted?	Yes	Cleats on gunwale
5	Are mooring bitts satisfactory?	Yes	Foldable cleats
6			



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OUR REF. NO.: JP1042/20
DATE: 15 MARCH 2022

9 WATERTIGHT INTEGRITY

No.	Description	Check	Remark
1	How many watertight bulkheads?	SR	One. Fore peak sail storage
2	Hatches, hatch covers and securing devices satisfactory?	Yes	
3	Hatch coamings satisfactory?	SR	Flush hatches
4	Weathertight doors satisfactory?	Yes	
5	Air pipes satisfactory?	Yes	
6	Ventilators satisfactory?	Yes	
7	Vent covers satisfactory?	NA	
8	Watertight doors satisfactory?	NA	
9	Sills and coamings satisfactory?	NA	
10	Freeing ports effective, unobscured?	Yes	
11	Deck scuppers and drains satisfactory?	Yes	Cockpit drains
12	Are all appliances labelled?	NA	



OFFICIAL NUMBER



PORT QUARTER



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DATE: 15 MARCH 2022



MAIN DECK



MAST AND RIGGING

10 EXTERNAL BELOW WATERLINE (NA – AFLOAT SURVEY)

No.	Description	Check	Remark
1	Condition of bottom and sides	NA	Vessel afloat at the time of attendance. Marine growth is starting to develop below the waterline.
2	Condition of Keel	NA	Vessel afloat at the time of attendance
3	Condition of skeg/deadwood	NA	Vessel afloat at the time of attendance
4	Propeller/s	NA	Vessel afloat at the time of attendance
5	Rudder/s	NA	Vessel afloat at the time of attendance
6	Anodes	NA	Vessel afloat at the time of attendance
7	Skin fittings	NA	Vessel afloat at the time of attendance

11 LIFESAVING

No.	Description	Check	Remark
11.1 EPIRB			
1	What type of EPIRB is fitted?	SR	Not sighted
2	Is the EPIRB registered with AMSA?	-	
3	Is the EPIRB within date?	-	



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<u>No.</u>	<u>Description</u>	<u>Check</u>	<u>Remark</u>
11.2 LIFERAFTS			
1	Number and capacity?	SR	One for 6 persons
2	Are they in current inspection date?	No	
3	Are hydrostatic releases in date?	NA	
4	Are the launching arrangements satisfactory?	Yes	
11.3 LIFEBOUYS			
1	What number fitted?	SR	Nil fitted
2	What number with lights and lines?	-	
3	Are they marked with vessel's name?	-	
11.4 LIFE JACKETS			
1	What number carried?	SR	Eight
2	What type are they?	SR	Inflatable
3	Are lights in date?	NA	
4	Are they marked with vessel's name?	No	
11.5 PYROTECHNICS			
1	What number and type?	SR	Not sighted
2	Are they in date?	-	
11.6 MEDICAL EQUIPMENT			
1	Are the medical stores in good order?	SR	Not sighted
11.7 FIRE AND SAFETY PLAN			
1	Is a fire and safety plan mounted?	NA	

12 FIRE SAFETY

<u>No.</u>	<u>Description</u>	<u>Check</u>	<u>Remark</u>
12.1 STRUCTURAL FIRE PROTECTION			
1	Does the engine room have SFP fitted?	No	
2	Are vent flaps working and clearly labelled?	NA	
12.2 FIRE PUMP, HOSES & NOZZLES			
1	Does the vessel have a fire pump?	No	
2	If the answer to the previous question is “No”, does the vessel have a pump capable of being used as a fire pump?	NA	
3	Does the vessel have a fire hose?	No	
4	Does the fire hose have a fire nozzle?	No	
12.3 PORTABLE FIRE EXTINGUISHERS			
1	Are the units in current service date?	Yes	



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“SON OF SAM”

OUR REF. NO.: JP1042/20
DATE: 15 MARCH 2022

<u>No.</u>	<u>Description</u>	<u>Check</u>	<u>Remark</u>
2	Are they appropriate for the space they are located?	Yes	
3	Is there a sufficient number?	Yes	
12.4 ENGINE ROOM FIXED FIRE SYSTEM			
1	Type of system?	SR	Nil fitted
2	Are warning signs fitted at access points (if toxic gas)?	NA	
3	Does gas pre-release alarm work correctly?	NA	
4	Are operating instructions displayed?	NA	
12.5 FIRE DETECTION SYSTEM			
1	Is a detection system fitted?	No	
2	Is the system free of faults?	NA	
3	Are detectors fitted in the engine room and the accommodation?	NA	



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SUPPLEMENT TO SURVEY REPORT
"SON OF SAM"

OUR REF. NO.: JP1042/20
DATE: 15 MARCH 2022

RIGGING

TYPE: Keel stepped, 9/10 fractional rig
SPARS: Carbon fiber boom with main furler
MAIN MAST: Carbon fiber mast with molded aft bend and 3 swept back spreaders
STANDING RIGGING: Rod
- Shrouds 1/3" rod
- Stays Side stays 1/2 " rod. Hydraulic backstay adjuster.
- Chain Plates Stainless, under deck
RUNNING RIGGING:
- Tracks 2 for storm jib and main sail track
- Blocks Ronstan
- Ropes Satisfactory condition
WINCHES: 2 electric Harken 50, 2 Harken 60 and 2 Harken 70
BOOM VANG: Telescopic type
JIB FURLER: Genoa furler

SAIL INVENTORY

HEAD SAIL: Stowed
MAIN: Furled inside boom
JIB: -
SPINAKERS: -

SURVEYOR'S COMMENTS:

Sail inventory not provided. Sails not inspected at the time of attendance. Overall rigging noted in satisfactory condition.