



**SHIPPING DIVISION**  
**SAFER SHIPS CLEANER OCEANS**  
**Hull and Machinery Survey Booklet**  
**Small Yacht**

Name of Vessel: “YAO”

Official Number: FR-CNBZE098C818

Date of Survey: 31<sup>st</sup> May 2022.

Place of Survey: Shipyard “NAVAR”, Tivat, Montenegro.

Date of Last Dry Dock: 31<sup>st</sup> May 2022.

This booklet is intended to be used as a job aid by Shipping Division Surveyors/Inspectors during “Hull and Machinery Survey”. The lists contained within this booklet are not intended to limit the survey. Each surveyor/inspector should determine as the case may be the depth of survey necessary.

**HMWB/YHT3–Sept 17**

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**MINISTRY OF OCEAN ECONOMY, MARINE RESOURCES, FISHERIES AND SHIPPING**

**Shipping Division Head Office**  
Level 3 Ken Lee Building  
Edith Cavell Street  
Port-Louis  
Mauritius  
Tel: 2136027/ Fax: 20137013  
Email: [shippingdivision@govmu.org](mailto:shippingdivision@govmu.org)  
Email: [shipping@intnet.mu](mailto:shipping@intnet.mu)



**Shipping Division**  
Level 4, Ken Lee Building  
Edith Cavell Street  
Port-Louis  
Mauritius  
Tel: 2060024-27  
Fax : 20137013

1.	Main propulsion	Remarks
a.	Type	4 JH57 DIESEL.
b.	Manufacturer's Name	YANMAR.
c.	Serial Number	962.
d.	Engine Rating	41,9 kW.
e.	Engine Panel	Operating voltage    12 VDC Hour Counter:        Yes Voltmeter:            Yes Oil Pressure Gauge: Yes Panel Dimension:    260x166 mm.
f.	Engine mounts	Flexible engine mounts
g.	Cooling systems	Seawater intake valves.
h.	Exhaust system	Wet exhaust.
i.	Ventilation	Extraction and exhaust ventilation system.
j.	Engine gears	YANMAR Saildrive Type SD 60 GEAR RATIO 2/49.
k.	Shafting system	Saildrive.
l.	Propeller Shaft Gland	Saildrive.
m.	Running test of propulsion engine	Test: Engine parameters are compliant with manufacturer's data.



2.	Fuel System	Remarks
a.	Fuel Lines	Flexible and rigid diesel lines.
b.	Fuel Filters	Diesel filter ( one per engine ).
c.	Fuel Tanks	2 x 520 liters aluminum tanks Electric gauge on main electrical panel.
d.	Ventilation	One fan per engine compartment.
e.	Shut off valve/manifold	Two diesel shut-off valves.
f.	Fuel Overflow	A vent on diesel tanks.
3.	Generator	Remarks
a.	Type	MDKDK 9 KVA.
b.	Manufacturer's Name	CUMMINS ONAN.



<b>3.</b>	<b>Generator</b>	<b>Remarks</b>
<b>a.</b>	Serial Number	CUMMINS MDKDK A 050L576A.
<b>b.</b>	Engine Rating	11KVA - 50 Hz – 1800 PRM / 743 hrs.
<b>c.</b>	Running Hours	351 hrs.
<b>d.</b>	AC electrical System	None.
<b>e.</b>	DC electrical System	12 V DC electric system with battery charging, negative grounding Separate battery switch to shut off + an – Two Alternators 80 A.
<b>f.</b>	Batteries	One battery 12 V 110 ah per engine.
<b>g.</b>	Battery charger	Yes.
<b>h.</b>	Generator Running Test	Test: The parameters are compliant with the Manufacturer's data.



4.	Steering Gear	Remarks
A	Inspection of steering gear	Hydraulic bar steers the rudder.
B	Test of Emergency Steering gear	Tests were convincing.
5.	Bilge System	Remarks
a.	Bilge pump	Two hand pumps. Two automatic submerged bilge pumps. Two uninstalled bilge pumps with manual release. One submersible pump 220 V.
b.	High water level alarm	Yes.
6.	Hull	Remarks
a.	General Hull condition including watertight integrity	Shell plating: polyester resin and anti-osmotic resin. Hull and bridge infusion Monolithic (polyester/glass fiber) and balsawood sandwich shell under waterline, white gel coat. Deck: Nacelle and balsawood sandwich V.P. laminated partitions.



6.	Hull	Remarks
b.	Decks	None.
c.	Bulkheads/frames/Stringers	None.
7.	Mooring Equipment	Remarks
a.	Windlass	QUICK 1700 W electric windlass.
b.	Anchors	<p>One anchor of 25 kgs, 85 m of chain diameter 12 and 100 m of rope diameter 22;</p> <p>One anchor of 15 kgs, 20 m of chain diameter 10 and 30 m of rope diameter 18;</p> <p>One FORTESS of 9.5 kgs, 20 m of chain diameter 10 and 30 m of rope diameter 18.</p>
c.	Anchor cable	<p>85 m of chain diameter 12 and 100 m of rope diameter 22;</p> <p>20 m of chain diameter 10 and 30 m of rope diameter 18;</p> <p>20 m of chain diameter 10 and 30 m of rope diameter 18.</p>



8.	Air Conditioning	Remarks
a.	Air Conditioning System	Reversible air conditioning.
9	Heating	Remarks
a.	Heating System	Reversible air conditioning.
10.	Galley	Remarks
a.	Galley Installation	U-shaped galley to port Double stainless steel sink Three burner gas hob and oven Refrigerator 12V 130L.



11	Sewage	Remarks
a.	Sewage system	Three blackwater tanks capacity 80 liters.
12.	Tanks	Remarks
a.	Water Tank	Water tank capacity 2 x 175 liters Electrical gauge on main electrical panel Watermaker 100l/ hour ( 12 V or 240 V ).
13.	Navigating Bridge	Remarks
a.	Bridge Equipment	GPS Chart plotter, Radar, AIS, Anemometer, Wind Angle, Depth Sounder, VHF, Windlass Control, Chain Counter.
14.	Mast and Rigging	Remarks
a	Mast and Rigging system	Aluminium mast Total Sail area upwind 131 m2 / 1388 sq.ft. Horned mainsail 81 m2 / 872 sq.ft. Furling genoa 50 m2 / 538 sq.ft. Code 0 (Genaker) 93 m2 / 1001 sq.ft.





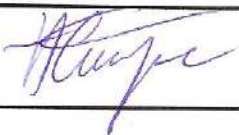
## NOTES AND COMMENTS

Catamaran "YAO", brand LAGOON 450 is four years old.

On 31<sup>st</sup> May 2022, catamaran was lifted on shore in Shipyard "Navar", Tivat, Montenegro, due to inspection.

I was able to witness that catamaran was in compliance with the regulations, as well as the safety equipment. At the time of the inspection, the catamaran was equipped with the equipment listed above.

Catamaran is well maintained by the owner.

OFFICE USE	COMPLETED INFORMATION
Date Survey Completed	01 <sup>st</sup> June 2022.
Name of Surveyor	Capt. Nikola Strugar.
Signature	
Deficiency list issued/Date	Nil.

