PRE-PURCHASE SURVEY REPORT

S/Y "HYDRA X"

General Particulars

Name of Yacht:	***HYDRA X***
Registration:	*PIRAEUS*
Official No.:	*11707*
Type:	*Commercial Yacht under Greek Flag*
Model:	*LAGOON 42*
Builder:	*C.N.B.*
Hull No.:	*FR-CNBZDO98B717*
Year of Build:	*2017*
Construction:	*GRP*
Engine Model:	*(2X) YANMAR 4JH57*
Engine S/N's:	*(P) E12188 – (S) E12189*
Total Power:	*(2X) 57 BHP / 3000 RPM*
Length:	*12,80 m*
Breadth:	*7,70 m*
Depth:	*2,50 m*
Date of survey:	*05/09/2020*
Place of survey:	*ALIMOS, GREECE*

Definitions of Terms in Defect Lists

Dangerous (D): *System to which defect referred is a serious hazard. Should not be used until the defect has been put right as a matter of immediacy*

Urgent (U): *The defect referred to should be attended to at the soonest possible moment. If left or used before rectification, the defect/system/vessel may become dangerous*

Priority (P): *A defect not as serious as (D) or (U), but one that should not be left unattended until the next planned maintenance.*

Advisory (A): *A defect or shortcoming, which is not an immediate hazard or in need of priority attention, but needs to be recorded. Allowances should be made, and consideration given to rectification at next refit or out of season lay-up period.*

Limitation (L): *Defines a limitation of this survey*

1 Introduction

The potential owner commissioned the survey in order to attain an assessment of the overall condition of the yacht for pre-purchase purposes. This survey was undertaken at a Marina in Alimos/Greece and consisted both an in-water survey and dry docking of the yacht. The weather conditions were fair with light seas and sunny conditions.

The yachts' current owner has a yachting background and a dedicated team assisting the day to day operation of the yacht, overall condition and management, ensuring that she is following a good maintenance regime.

An extensive sea trial was conducted were all on board auxiliary systems were tested were possible.
The overall visual condition of the engine room was fair with the yacht's owner keeping a close look on any repairs/works need to be carried out.

2 Description

S/Y "HYDRA X" is a Catamaran ''LAGOON 42'' Sail Yacht built under Recreational Craft Directive as a pleasure yacht. It is fitted with two Yanmar diesel engines tied to a sail driven propeller. She was built in 2017 by C.N.B. / France and constructed from GRP.

The S/Y "HYDRA X" is able to accommodate up to 8 guests in 4 cabins each one with double size berths. Also, saloon couch can be transformed to a double size berth and accommodate two more guests. During day light voyages can accommodate up to 10 guests according to Certificate of General Inspection.

The interior of the yacht was visually inspected and also found in fair condition with all on board electrical, entertainment systems being in operation.

3 Safety

Details	***YES***	***NO***	***N/A***
2.1 CONSTRUCTION & STRUCTURAL STRENGTH – GENERAL			
Vessel has a watertight weather deck	☒	☐	☐
Vessel is either:			
Surveyed & Certificated by a recognised Class Society	☐	☒	☐
In possession of valid Load Line or LL Exemption Certificate (not required)	☐	☒	☐
Has individual plan approval	☐	☒	☐
Has more than 5 years safe history of the vessel or type	☐	☒	☐
Has a valid CE certificate (cat A)	☒	☐	☐
2.2 WATERTIGHT SUBDIVISION			
Are watertight bulkheads/doors of adequate strength	☐	☐	☒
Are penetrations/doors watertight N/A	☐	☐	☒
W/T door notices in place N/A	☐	☐	☒
2.3 WEATHERTIGHT INTEGRITY	**Weather tight**		
	Good	Bad	Poor
Hatchways & hatches	☒	☐	☐
Doorways & Companionways	☒	☐	☐
Washboards	☒	☐	☐
Skylights & Windows & Port lights	☒	☐	☐
Ventilators & Exhausts	☒	☐	☐
Air Pipes	☒	☐	☐
Sea Inlets & Discharges Secure	☒	☐	☐
2.4 WATER FREEING ARRANGEMENTS			
Vessel capable of efficiently clearing shipped water from deck	☒	☐	☐
Shutters/flaps free	☒	☐	☐
2.5 MACHINERY	Good	Bad	Poor
Main Engines:***2 x YANMAR***			
Marine diesel engine	☒	☐	☐
Make/model/type of engine: 4JH57			
Engine hours: ***1759 each***			
Fuel tank condition good standard:	☒	☐	☐
Fuel pipes/connections to good standard:	☒	☐	☐
Fuel filling/venting system to good standards	☒	☐	☐
Engine space clear of combustible materials	☒	☐	☐
Remote fuel shut-off N/A	☐	☐	☐
Remote means of stopping machinery N/A	☐	☐	☐
Service history *as per current owners'*	☒	☐	☐
2.6 PORTABLE PLANT, OUTBOARDS & FUEL			
Petrol engines & generators & fuel stowed safely	☒	☐	☐
Stowage lockers (if any) adequately sealed to interior, vented and drained	☒	☐	☐
Marking & safe stowage of petrol containers	☒	☐	☐
Hydraulic Systems N/A	☐	☐	☐
2.7 OTHER MACHINERY SYSTEMS	☒	☐	☐
Describe: One generator. CUMMINS Onan (Model: 11MDKDN-8214A) Serial No.: N160983818			
Air conditioning system: WEBASTO	☒	☐	☐

2.8 ELECTRICAL SYSTEM			
System to marine standard	☒	☐	☐
Batteries secured & adequately ventilated	☒	☐	☐
Emergency lighting	☐	☐	☒
2.9 STEERING GEAR, RUDDER & PROPELLER SYSTEMS			
Adequate visibility from steering position	☒	☐	☐
Steering to marine standard	☒	☐	☐
Propeller undamaged and no erosion damage:	☒	☐	☐
Bow Thruster: *N/A*	☐	☐	☐
Water Maker: *N/A*	☐	☐	☒
Stabilisers :*N/A*	☐	☐	☒
	Good	Bad	Poor
2.10 BILGE PUMPS & ALARMS			
Power / Hand pumps of adequate capacity:	☒	☐	☐
Strum boxes fitted *N/A*	☐	☐	☐
No auto bilge pumps where risk of pollution (none)	☐	☐	☐
Audible bilge flooding alarm fitted	☒	☐	☐
All compartments capable of being drained	☒	☐	☐
	Yes	No	n/a
2.11 LIFE SAVING APPLIANCES			
Liferaft(s) : One (1)			
Manufacturer/Model: Arimar			
Serial Number(s): 16061022			
Canister / Valise: Canister			
No. of persons: 10 Persons			
In service: *Yes (last inspection 2020)*			
Liferaft stowage arrangement:	☒	☐	☐
HRU fitted correctly & in date: N/A			
Lifebuoy type (horseshoe or circular): two horseshoe shape with inverted light	☐	☐	☐
and two with buoyant line found on board.	☒	☐	☐
2 Lifebuoys fitted with becket lines, reflective tape and reversible light	☒	☐	☐
11 life vests on board for adults	☒	☐	☐
1 life vests on board for children	☒	☐	☐
If lifebuoys of horseshoe type, drogue(s) fitted to "free"buoy(s)	☐	☐	☒
Danbuoy fitted to one lifebuoy (free floating buoy)	☐	☐	☒
Lights fitted to "free" lifebuoy(s)	☒	☐	☐
Buoyant line(s) fitted to lifebuoy(s) without light(s)	☒	☐	☐
Lifejackets are not fitted with lights	☒	☐	☐
3 x Red hand flares on board expiry date: 04/2023	☒	☐	☐
3 x Red parachute flares on board. Expiry date: *04/2023*	☒	☐	☐
2 x Orange smoke signals on board Expiry date: *04/2023*	☒	☐	☐
Lifesaving signals table displayed	☒	☐	☐
Emergency Training/Safety Maintenance Instruction manual on board	☐	☒	☐
2.12 FIRE SAFETY			
Machinery space able to contain fire extinguishing system: *N/A*	☐	☐	☒
Remote stops for machinery & vent fans: *N/A*	☐	☐	☒
Remote fuel shut offs for all consumers: *N/A*	☐	☐	☒
Machinery space boundaries fire protected: *N/A*	☐	☐	☒
Engine space insulation non combustible:	☒	☐	☐
Machinery space free of combustible materials	☒	☐	☐
Engine space clean	☒	☐	☐
Furnishing fabrics/foams fire/flame retardant: *N/A*	☐	☐	☒
Fire protection around open flame devices adequate N/A	☐	☐	☒
Gas installation to good standard	☒	☐	☐
Gas detection fitted	☒	☐	☐
Open flame appliances (gas or other fuels) have flame failure protection	☒	☐	☐
Gas warning notice displayed (not applicable)	☐	☐	☒

Fire detection fitted	☐	☐	☒
Two means of escape from living accommodation	☒	☐	☐
Multihull escape hatches	☐	☐	☒
Manual or power fire pump (outside engine space) fitted with suitable hose & nozzle **or** 2 certified portable extinguishers each with minimum fire rating 13A/113B: N/A	☐	☐	☒
In addition, at least 2 certified multi-purpose portable extinguishers certified,	☒	☐	☐
Fire blankets	☒	☐	☐
Fire buckets with lanyards	☒	☐	☐
Engine space fire extinguishing system: N/A	☐	☐	☐
2.13 RADIO EQUIPMENT	Yes	No	N/A
MMSI: 240015900 Call Sign: SVA7447			
VHF radio with DSC capability	☒	☐	☐
Portable VHF	☐	☒	☐
Satellite phone	☐	☒	☐
Navtex Receiver	☐	☒	☐
Back-up VHF/ DSC battery supply	☒	☐	☐
Emergency action card displayed at radio position	☒	☐	☐
Emergency aerial on board	☐	☒	☐
EPIRB registered to vessel	☒	☐	☐
AIS fitted	☐	☒	☐
RADAR	☐	☐	☒
2.14 NAVIGATION LIGHTS, SHAPES & SOUND SIGNALS	Yes	No	N/A
Lights for operation between sunset & sunrise:			
Main light	☒	☐	☐
Port & stbd lights	☒	☐	☐
Stern light	☒	☐	☐
Anchor light	☐	☒	☐
Bi-colour lantern	☐	☒	☐
Tri-colour lantern	☐	☒	☐
Not under Command (NUC) PORTABLE	☒	☐	☐
Shapes & sound signals as per Colreg	☒	☐	☐
2.15 NAVIGATIONAL EQUIPMENT	Yes	No	N/A
Properly adjusted /calibrated magnetic compass visible to helmsman OR	☒	☐	☐
Fluxgate compass with battery back-up supply	☐	☐	☒
Adequate lighting for compass (where applicable)	☐	☐	☒
Means to take bearings over 360^0	☐	☒	☐
Means to indicate vessel position e.g. GPS	☒	☐	☐
Distance measuring log or GPS	☒	☐	☐
Echo sounder	☒	☐	☐
Radar	☐	☐	☒
2.16 MISCELLANEOUS EQUIPMENT			
Nautical publications appropriate to vessel size, area, duty	☐	☒	☐
Signalling lamp	☒	☐	☐
Efficient radar reflector: N/A	☐	☐	☐
Barometer	☒	☐	☐
MOB Searchlight	☒	☐	☐
Anemometer	☒	☐	☐
Inclinometer	☒	☐	☐
Rig cutting equipment or equivalent means to clear rigging or anchor	☒	☐	☐

2.17 ANCHORS & CABLES Securely stowed & rigged Windlass fitted operational Towline (at least = length & diameter of required kedge anchor warp)	☒ ☒ ☒	☐ ☐ ☐	☐ ☐ ☐
2.18 ACCOMMODATION Adequate hand holds/grab rails Adequate ventilation Adequate lighting Safe means of escape (escape hatches to be operable from both sides) Adequate toilet/washing facilities Adequate supply of piped fresh drinking water & emergency water Heavy equipment secure Stowage lockers have secure closures Means to secure galley items in heavy weather	☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
2.19 PROTECTION OF PERSONNEL Deckhouse of adequate strength Continuous rail around deck, of adequate strength Adequate foredeck protection (pulpit /bowsprit netting etc) Height of rail => 600mm Stanchion horizontal spacing <2.2m Toe rail fitted (vessel without bulwarks) 100% safety harnesses, jackstays, attachment points Non slip working deck Adequate personal clothing & footwear provided Man overboard recovery arrangement	☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
2.20 MEDICAL STORES Medical kit First Aid Manual	☒ ☒	☐ ☐	☐ ☐
2.21 TENDERS Tender: Hull No.: DE-SSLNH003L920, Outboard Engine: HONDA (SN:BAEC-1010764) Jet ski: N/A	☒ ☐	☐ ☐	☐ ☐

Each section in the report must be classified as either:

A. -Condition satisfactory, no sign of significant deterioration at present

B. -Deterioration evident but not to an extent which immediately compromise the safety of the vessel. Owner/Managing Agent to monitor for further deterioration and take appropriate remedial action

C. -Deterioration compromising seaworthiness of vessel evident. Immediate remedial action required

EXTERIOR EXAMINATION	**A**	**B**	**C**
1. Bilge keels, tanks and associated piping	☒	☐	☐
2. Rudder and propeller blades	☒	☐	☐
3. Shafts and associated stern gear	☒	☐	☐
4. Skin fittings	☒	☐	☐
5. Hull exterior	☒	☐	☐
6. Cathodic protection	☒	☐	☐
7. Deck and access	☒	☐	☐
8. Deck houses	☒	☐	☐
9. Deck fittings	☒	☐	☐
10. Safety rails, jackstays & attachments	☒	☐	☐
11. Windows/hatches	☒	☐	☐
12. Steering gear	☐	☐	☐
13. Masts, spars, rig, recovery davits etc (not surveyed)	☐	☐	☐
14. Chain plates - ***N/A -***	☐	☐	☐
15. Propellers	☒	☐	☐
16. Moisture levels	☒	☐	☐
17. Generators	☒	☐	☐
18. Anchors and windlass	☒	☐	☐
INTERIOR EXAMINATION	**A**	**B**	**C**
19. Skin fittings & pipework	☒	☐	☐
20. Internal structural integrity *(where accessible & visible)*	☒	☐	☐
21. Navigational equipment and operational status	☒	☐	☐
22. Personnel protection safety	☒	☐	☐
23. Engine mountings *(Authorized Engineer's statement/report is required)*	☒	☐	☐
24. Engine cooling levels *(Authorized Engineer's statement/report is required)*	☒	☐	☐
25. Engine oil levels and condition *(Authorized Engineer's statement/report is required)*	☒	☐	☐
26. Engine pipework	☒	☐	☐
27. Stern glands, stern tubes and propeller shafts - ***N/A -***	☐	☐	☐
28. Air conditioning system	☒	☐	☐
29. Gas system	☒	☐	☐
30. Battery installation	☒	☐	☐
31. Electrical wiring	☒	☐	☐
32. Steering System	☒	☐	☐
33. Tanks	☒	☐	☐
34. Passive fire protection (cond. of insulation, cleanliness etc)	☒	☐	☐

The following table to be used where ticks appear in columns B or C & to give any other relevant information on the condition of the vessel & it's systems.

Ref No	Nature of Defect	Comments

Service History

Item	Date	Qualified Person			Recommend servicing		
		YES	NO	S/R	YES	NO	S/R
Last engine service	*Not known*	☐	☐	☐	☐	☐	☐
Generators service date	*Not known*	☐	☐	☐	☐	☐	☐
Steering gear service	*Not known*	☐	☐	☐	☐	☐	☐
Drive system	*Not known*	☐	☐	☐	☐	☐	☐
Air-conditioning system	*Not known*	☐	☐	☐	☐	☐	☐
Hull antifouling	*Not known*	☐	☐	☐	☐	☐	☐
Windlass/ anchoring syst.	*Not known*	☐	☐	☐	☐	☐	☐
Hydraulic systems	*Not known*	☐	☐	☐	☐	☐	☐
Zinc Anodes	*Not known*	☐	☐	☐	☐	☐	☐
Electric Installations	*Not known*	☐	☐	☐	☐	☐	☐

All S/R should be referred to below respective paragraphs for more details

Limitation: *all above service dates are as per owners' statements. According to current yacht's owner all annual servicing of engine and equipment is executed by dedicated workshop. During survey no documentation or service records for the annual maintenance found on board. According to owner's representative, company keeps all records.*

List of points to be addressed

Dangerous:

- *None*

Urgent:

- *None*

Priority:

- Engine and Generator service records to be provided indicating the service regime.
- Minor internal woodwork maintenance and repairs
- WC sink outline pipe needs maintenance.
- Minor GRP scratches to the exterior hull, below waterline, to be repaired as necessary.
- All rubber seals to be gradually replaced starting from next dry docking
- Fresh Water Tank along with the connected piping should be cleaned.
- Windlass, chain and anchor maintenance at next dry dock
- Maintenance of steering gear system at next dry dock is recommended
- Through hull valves maintenance at next dry dock
- Fuel tank should be cleaned and treated for fuel bug

Advisory:

- Medical chest should be surveyed every year by a certified pharmacist and relevant attestation be produced.
- Batteries and electrical system were visually examined and found in order. Same to be verified by authorized electrician.

Limitation:

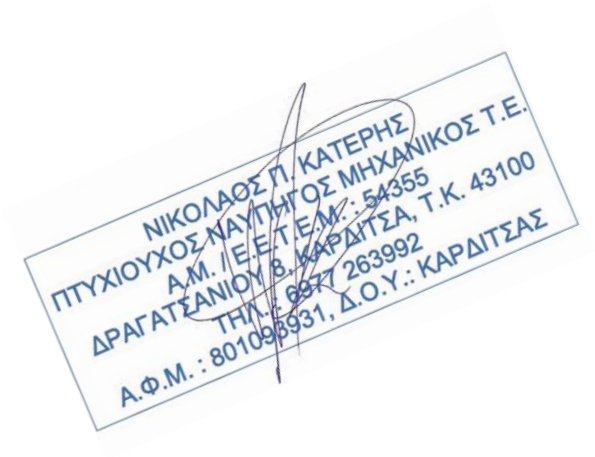
- Hull and structure survey were based on visual observation as well as some indicative measurements with a non-destructive moisture meter.
- Tender was not tested during survey.

Conclusion

"HYDRA X" *is a Sail yacht that can comfortably accommodate up to 10 persons.*

The yacht is used as commercial bare boat and is certified for unrestricted domestic voyages according to P.D.917/79.

Both exterior and interior of the yacht is kept to fair condition and considering the age of the yacht.



Disclaimer:

This survey report is personal and confidential to the client and carries no warranty if disposed of to a third party for any purpose.
"This survey report is a statement of what was observed by the surveyor on the day of the survey. These observations are only the result of visual examination of the vessel and its systems. The survey did not evaluate hidden portions of the vessel due to construction methods, plating, planking, bulkheads, ceilings, covering boards, fascia pieces, fiberglass, or plastic coverings. Additionally, areas under fuel or water tanks or areas under casings of engines, electric motors and machinery which were inaccessible were not surveyed. This report makes no warranties as to the seaworthiness of the vessel nor to what the condition of the vessel may be in the future."

Referenced Photos

Hull and structure survey were based on visual observation

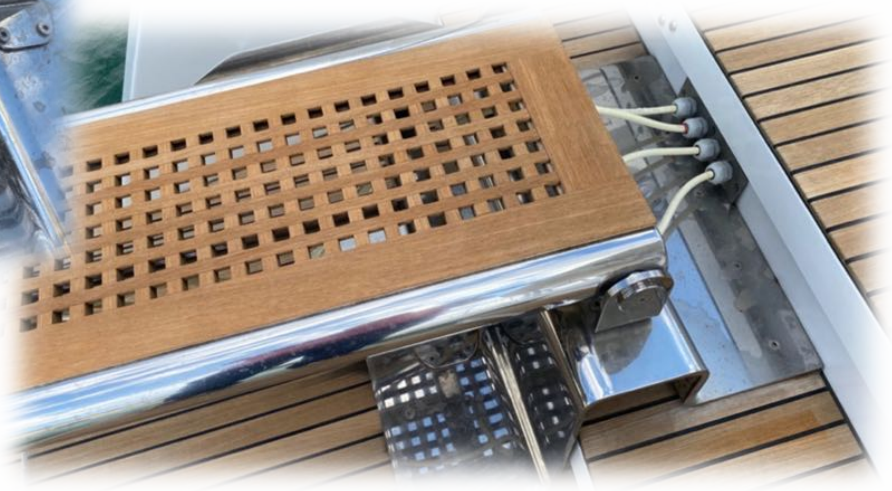
Minor scratches on the hull (port side)

Tender with outboard engine
(not tested during survey)

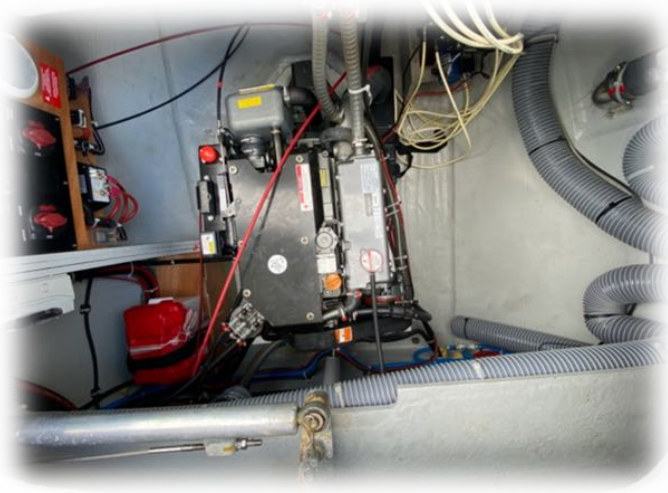
Builder's Plate

Hull Number

The hydraulic system of the gangway is recommended to be inspected every 2 years

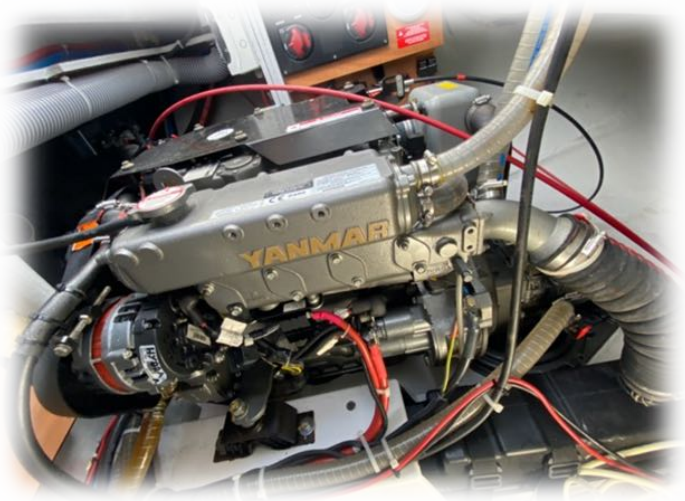


Flexible gas pipes are mandatory to be replaced within 2021



Engine Model:	*(2X) YANMAR 4JH57*
Engine S/N's:	*(P) E12188 – (S) E12189*
Total Power:	*(2X) 57 BHP / 3000 RPM*
Engines working hours:	*1759 (each)*

(Engines' service records to be provided)



Air-condition systems tested under working conditions. It is mandatory to be maintained annually

Generator's service records to be provided

Windlass, chain and anchor maintenance at next dry dock

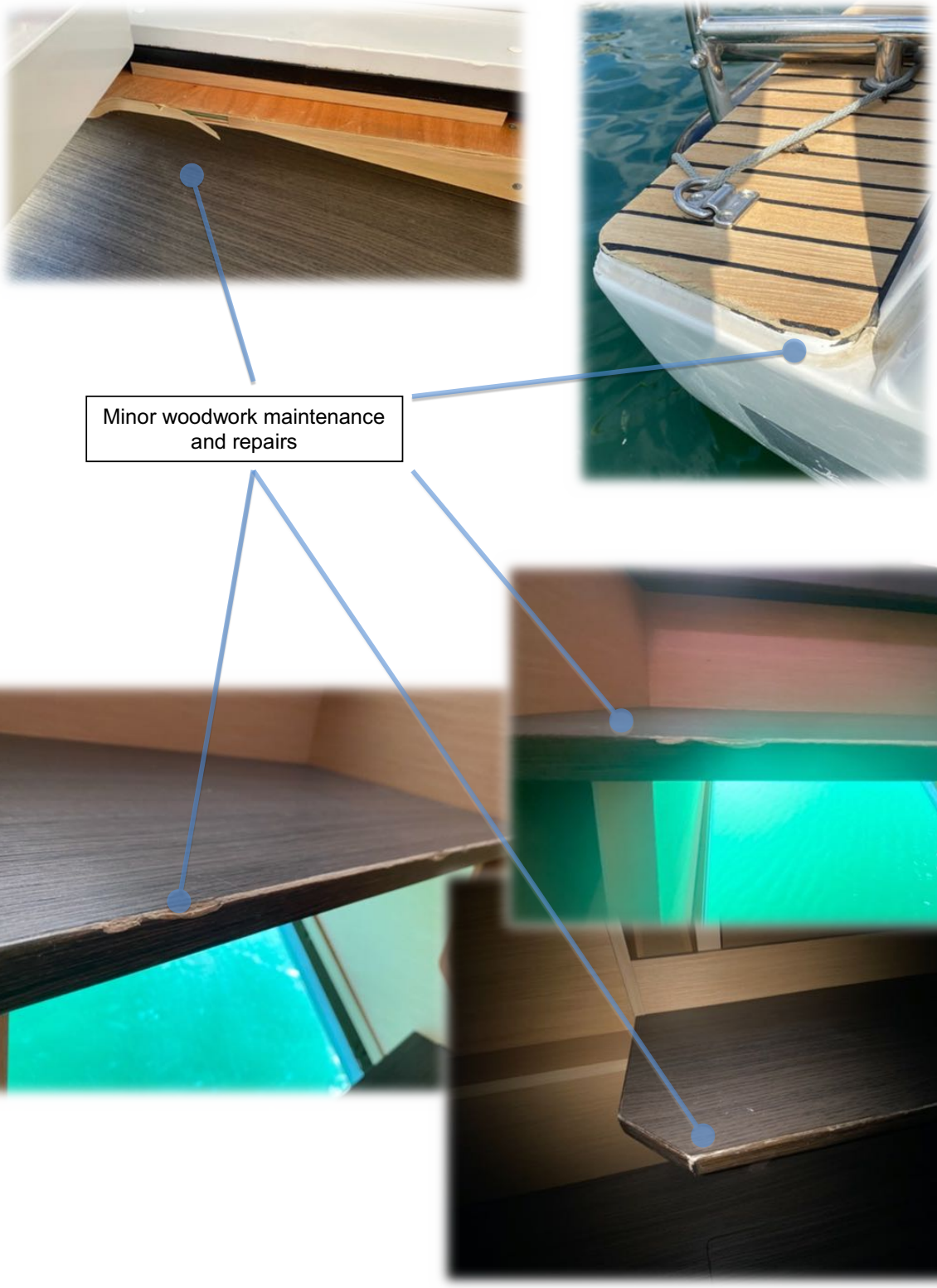
S/Y "HYDRA X"

Electronic equipment

Maintenance of steering gear system at next dry dock is recommended

Some of the water and waste piping need maintenance

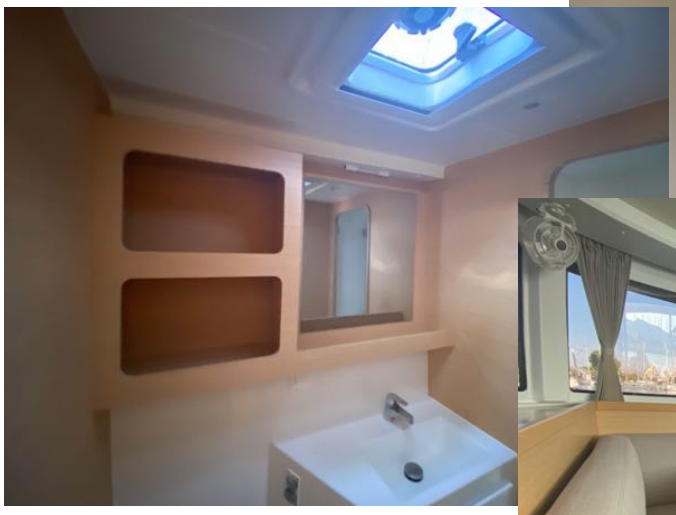
All Tanks along with the connected piping should be cleaned.


Minor woodwork maintenance and repairs

S/Y "HYDRA X"

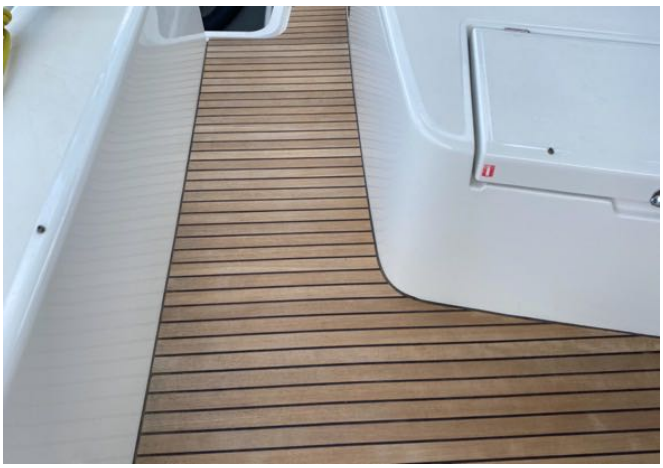
Interior

S/Y "HYDRA X"



S/Y "HYDRA X"

Exterior



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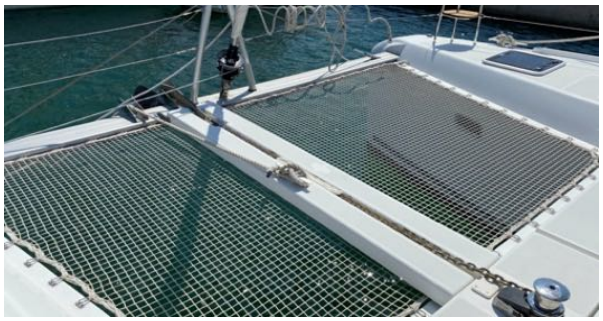

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