

ROB NEELEY MARINE

37 Haverstock Road Sandringham Auckland, rmneeley@gmail.com. Ph. 027 6943103

MARINE SURVEY REPORT

STRUCTURE and CONDITION REPORT

Customer: Ben Colhoun

TOHORA



Date of inspection: 1st August 2023

Location: Westhaven Marina Auckland, Orams Hard stand

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General

Design:	Bavaria - J&J Design
Yacht Model:	Cruiser 42
Year of launching:	2008
Production number	DE-BAVC42F0D808
Certification	CE - Category A
Builder:	Bavaria Yachts

This report summarizes the structural condition of the Yacht "Tohora"
 During the Survey, the boat was hauled out in order to check her under body and through hulls.
 Drive train (Propeller and shaft). Engine mechanical checks by others.

The yacht structure was tested visually, sounded with hammer tapping, only in areas where
 clear approach was existing. No moisture readings taken as raining on day of survey
 No furniture was disassembled in order to reveal the structure.
 This report represents the yacht's conditions on the dates tested.
 It does not provide any warranties for the yacht nor for its systems.

The contents of the Report prepared by us is confidential and has been prepared solely for you
 and shall not be provided by you to or relied upon by any third parties.

Report to be read in conjunction with Survey photos.

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Main Characteristics

Type:	Yacht Cruising sloop	
Dimensions:	LOA -	12.99 meters
	LWL-	11.40 meters
	Beam -	3.99 meters
	Draft -	1.8 meters
	Displacement -	9,200kg approx.
	Fuel Tanks:	208 litres
Engines:	Water Tanks:	360 litres
	Volvo D2-40 with sail drive	
	HP - 40hp	
	Hours -	1750
	Serial number - C1020055	
Generator	NA	
Hull Colour:	White with blue stripes and Red bottom	
Deck/cabin Colour:	White with blue coaming stripe	
Construction Hull:	FRP	

Construction Deck: FRP

Code for each applicable Section:	G = Good; F = Fair, S = serviceable, R = requires attention, NA - Not applicable or not viewed.
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Under Water Area

	Code	Comments
Hull Shell:	G	Tapping found no voids or delamination. Unable to get accurate moisture readings with short time out of the water. No visual indications of osmosis.
Keel:	G	Cast Iron Ballast keel bolted to hull structure. No indication of movement at keel to hull join. There are some small rust spots indicating minor electrolyses. Recommend adding a small zinc anode directly to the keel. There is a short section of hull to keel soft seal that needs replacing port fwd.
Rudder:	G	Structurally the rudder is sound and minimal movement in the rudder bearings. .
Drive Line:	G	Sail drive. Mechanical checks by others. The rubber boot is starting to come away fwd port corner.
Propeller/s	G	3 blade folding Maxprop. There is no prop speed on the propeller
Bow Thruster	G	
Skin Fittings:	G	Underwater skin fittings are bronze.
Anodes:	G	
Underwater lights	NA	
Bottom Paint:	S	There is extensive spots from where barnacles were. Antifouling will not be effective in these spots. There is some flaking to the antifouling particularly at water line port fwd and on the bottom fwd of the keel.

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Exterior Topsides

Hull shell	G	Tapping found no delamination or voids. Moisture levels normal.
Hull/Deck Join	G	
Stem head fitting	NA	

Transom:	G	
Boarding Platform	G	
Exhaust outlets:	G	
Paint/Gel Coat Finish:	F	Gel Coat cover is good but dull.. There are some minor scratches. A polish and wax will lift the gloss level and appearance.
Port Lights	G	
Belting:	G	

5 Exterior Decks and Super Structure

Decks	G	Tapping found no delamination or voids. Moisture readings are normal. There is stress cracks in the gel coat around the port side chain plate plinth. See chainplates below. There are hair line stress cracks in the gel coat around some of the stanchion bases and a minor stress crack to port aft side deck beside spinnaker turning block.
Cabin top and coamings	G	Tapping found no delamination or voids.
Cockpit	G	Tapping found no delamination or voids. Moisture levels normal.
Teak	F	Laid teak to cockpit area. Teak has wear and lost some thickness. Caulking is proud. Recommend shaving caulking flush with the teak to avoid rolling the caulking which breaks the bond with the teak. The centre plank on starboard helm seat is delaminated from the deck
Toe rail/Cap rail	G	
Paint/Gel coat Finish:	F	Gel coat is in good condition but with some oxidation typical for the age. There are a few minor scratches and dings and some minor hair line cracks.
Anchor Well/Lockers	G	There are cracks to underside of starboard cockpit locker hatch.
Deck Hatches:	G	Aluminium frame with Perspex clears.
Port Lights	G	No indications of leaks to opening port lights.
Bollard / cleats	G	

Stanchions/Rails/Safety lines	G	There is some movement to some stanchion base. This includes port side mid stanchion and starboard side first and third from the front. Recommend un bolting and re sealing to the deck.
Windows:	G	See port lights
Companionway	G	
Transom Arch	G	
External upholstery/Canvas work	G	

6 INTERIOR STRUCTURE

Hull shell/bilges:	G	Where accessible in general bilges are dry and clean. There is some fresh water aft at the rudder area. This appears to be coming from a deck fitting at the port aft corner.
Bulkheads	G	
Scantlings/structure	G	
Keel Bolts	G	Stainless steel bolts. No keel bolts extracted for inspection. Bolts, nuts and washers where viewable are clean and free from any visual corrosion
Mast Step	G	
Side Chain plates	G	Structurally sound. There is some stress cracks around the deck plinth of port chain plates. This indicates some minor stress at the deck from the lower chain plate. The lower chain plate length can be adjusted. I recommend shortening the chain plate slightly when the standing rigging is next replaced.
Stem head fitting	G	
Skin Fittings/Sea cocks/valves	G	Skin fitting valves and sea cocks are metal. All appear in good working condition. The aft toilet outlet 90deg fitting above the valve is leaking and has some corrosion. This fitting should be removed, checked and replaced if required.
Deck structure:	G	Most deck structure not viewed because of fixed linings. Where viewed structure is good.

7 MECHANICAL EQUIPMENT

Inspection of equipment for structural integrity and operational on day of survey only.

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Engine Installation	G	Visually the engine appears in a good condition and serviced. Last service November 2022
Engine Beds	G	Some surface corrosion to port fwd engine mount
Engine Shaft and seal	G	Sail drive. Mechanical checks by others
Exhaust	S	Stainless steel fitting to aft end of water lock has a minor leak to weld with corrosion. These stainless steel fittings are susceptible to failure at the welds.
Steering	G	Steering has recently been serviced.
Auto Pilot	G	
Ground Tackle	G	Electric anchor winch working. pare anchors, chain and warp on board.
Fuel tanks/plumbing:	G	1 x plastic tank. No internal inspection done.
Water Tanks:	G	2 x plastic tanks. No internal inspection done.
Black tank:	G	2 x black tanks that empty by gravity.
Toilet	G	2 x manual toilets
Battery Installation	F	Battery for bow thruster requires replacement. Service batteries 3 x 165 amp 12 volt Gel batteries new 2021. The securing of the batteries is inadequate with brackets that don't hook onto the batteries. Start battery appears in a good condition but age un know
Electrical installation	G	General installation looks good and functioning. Adequate battery chargers. No inverter sighted. AC system is functioning.
Electrical warrant of Fitness	G	EWOFF expires December 2026
Bonding	F	There is bonding to engine and keel only. No bonding to metal skin fittings.
Lighting	G	There is a broken light fitting saloon starboard aft. The saloon stb bulkhead light has a faulty switch.
Plumbing	G	

Bilge Pumps	G	1 x electrical bilge pump . 1 x manual bilge pump.
Fresh Water Pump	G	
Shower sump Pump	G	
Air Conditioning/Heating	NA	
Refrigeration	G	
LPG Installation	R	Gas bottle is in a self draining vented locker. There is no gas solenoid valve or gas sensors. Gas installations are covered by the Gas (Safety & Measurement) Regulations 2010 and must be compliant and certified by a gasfitter. This falls under a gasfitters control. If there isn't a gas certificate for the installation, then it is recommended that the installation be upgraded and certified.
Oven	G	Burners are working.
Hot Water Cylinder.	G	
Water maker	G	There is an electric water maker on board. General installation looks good. System not tested.
Generator	NA	

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SAFETY EQUIPMENT/Electronics

Fire Extinguishers	G	At least 7 fire extinguishers sighted
Navigation lights	R	Bow port and starboard working. Stern light working, Deck flood light working. Steaming and mast head lights not working
Dan buoys	G	
Navigation Instruments .	G	Raymarine wind, depth and speed working.
Chart plotter	G	PC computer based navigation system with chart plotter and overlay with AIS and Radar
Radar	G	Radar to PC computer
Compass	G	
Horn	G	Portable air horn canister
VHF	G	

Search Light	NA	
Life Jackets	G	5 x PFD's.
Flares	R	Selection of flares expire 04/23
EPIRB	S	Battery date expire December 2023
Life Raft/Tender	G	Life raft Transocean 6 person. Serial number 52381SN000 23854. 3D Tender aluminium RIB UT 300. serial number FR-DAL73002B818. Outboard Honda 6hp four stroke. Serial number 1007316

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Sailing Systems

No sea trial of sailing systems undertaken. Only general comment on deck items.

Main Mast/Boom	G	Aluminium mast and boom.
Standing rigging	G	Wire rigging. At deck level standing rigging visually looks in a good condition. No indication of when last changed
Winches	G	
Main Sheet system	G	
Mast Deck collar	G	Deck step mast
Blocks and Pulleys	G	There is a rope clutch stb side of companionway not closing as the line is too large a diameter.
Running rigging/ropes	G	
Spinnaker pole	G	Spinnaker pole and retractable bow sprit
Sails	G	Sails were not deployed for inspection. Main sail in stack pack, Furling Genoa, furling staysail and gennaker in a sock.

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GENERAL COMMENTS

Interior	Condition of interior is in a good condition for the age. Upholstery is original and has stains and some mould. There is some water damage to galley locker trim above bench aft	
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CONCLUSION

Tohora is a well built production yacht from a good European factory. Tohora is in a good condition for 15 years old and is structural sound. There are some minor cosmetic defects typical for this age yacht. Tohora is well equipped with good sailing systems, safety equipment, and systems. Equipment is in working condition and generally kept well serviced. Tohora is suitable for coastal cruising and with the appropriate safety gear etc will be suitable for offshore cruising.