

# TRX-NB101 AQS TRYM

BATTERY HYBRID CATAMARANWORKBOAT

- **LOA : 18.5 m** Towing and Anchor Handling
- **B : 12.0 m** Small Coastal Shipping
- **D : 4.8 m** Nine (9) Knots Speed
- **T : 3.8 m** Bollard Pull Twenty-Two (22+) Tones
- **LSW : 310 T** Electric & Hybrid & Diesel Elec.



NORWAY



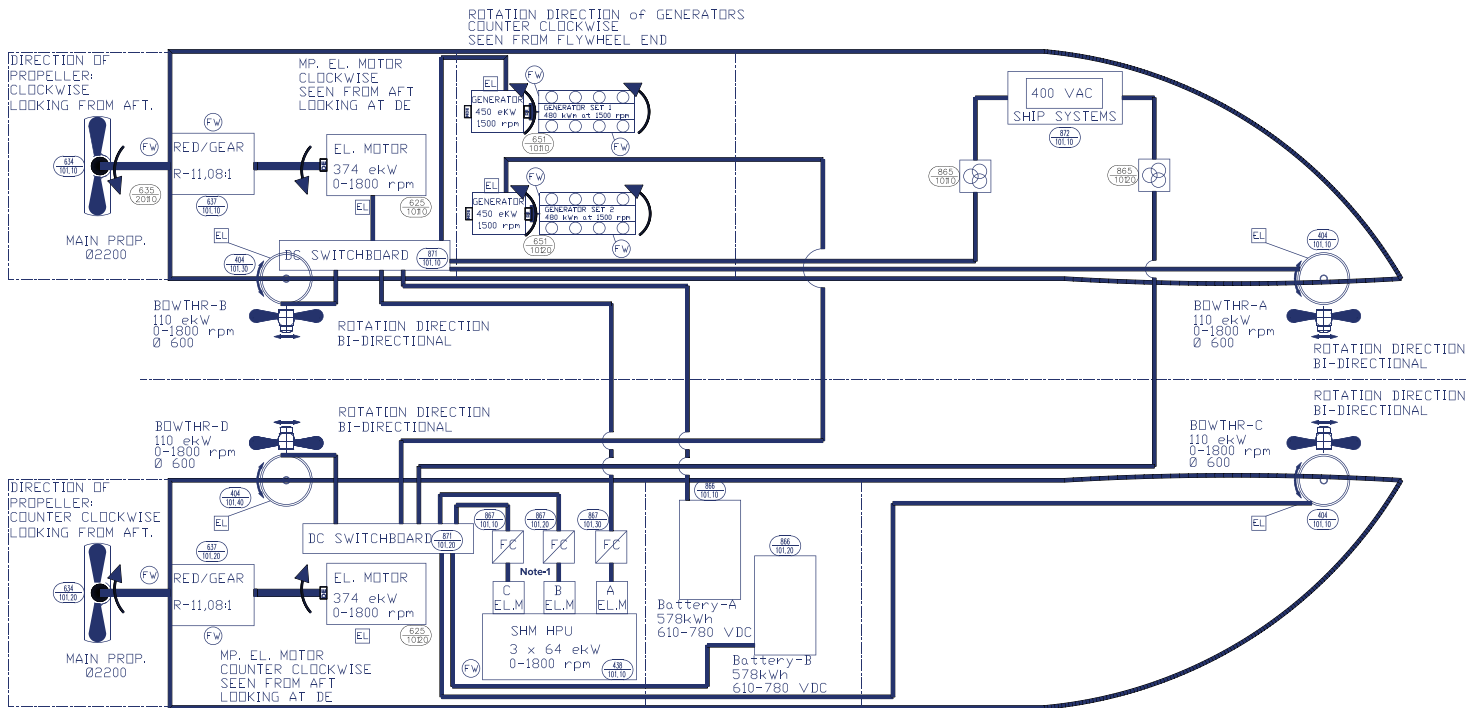
<b>Owner</b>	: AQS Rederi AS	<b>Construction</b>	: Steel Hulled and Aluminium Superstructure with Alu. Foldable Mast
<b>Design</b>	: Macduff Ship Design	<b>Design No</b>	: 3801-0722
<b>Class</b>	: Non-Classed	<b>Notations</b>	: N/A
<b>Flag</b>	: Norwegian Flag	<b>Operation Area</b>	: Small Coastal Shipping
<b>Deck Cargo</b>	: 1.5T/sqm - 80 T Maximum Deck Load in Total	<b>Cranes</b>	: 2 x Palfinger PK150002M Radio Remote Controlled
<b>Electrical System</b>	: Bertel O. Steen Power Solutions 2 x Main DC Switchboards Drives Integrated 400/230V AC 50 Hz Two (2) Split	<b>Hydraulic Power Unit:</b>	SHM - 3 x 64kWe Directly Fed from DC Switchboards Accumulators for Remote/Emergency Operation of Safety Functions Winterization Package
<b>Emergency Power</b>	: 24 VDC with Battery Accumulator	<b>Shore Connection</b>	: 1x125Amp 400V AC + 1x63Amp 230VAC & Insulation Transformers
<b>Main Engine</b>	: BoS – Drives Integrated in DC Switchboard 2 x 374kWe Electric Motors	<b>Propulsion</b>	: Nogva Heimdal 2 x CP Propulsion 2.2m Propeller with Nozzle
<b>Towing Winch</b>	: SHM - 1 x Winch 60/40 HT – Two (2) compartment drum 730 mt-60mm Rope acc. to ISO 7365	<b>Side Thrusters</b>	: 4 x 110kWe for Heavy duty DP operations (One (1) on Each End)
<b>Deck Equipment</b>	: 1 x SHM Vertical Tugger Winch SWL 10T 1 x SHM Deck Module (Chain Lock & Towing Pins) 1 x SHM Stern Roller in 4 mt Length 2 x SHM Towing Pins 1 x SHM Mooring Lock 1 x SHM T-Lock 4 x HYDEMA Capstans Container Sockets for Two (2) 10FT Cont. ROV Hangar with Workshop	<b>Electronics</b>	: Furuno X-band Radar Olex Chart AIS KVM System with 2x 55" Monitors BNWAS Autopilot Compass GPS Echo Sounder CCTV System GMDSS A1 GSM Data Network
<b>Generators</b>	: Nogva Scania 2 x 450kWe feeding directly to the DC Switchboards	<b>Battery Capacity</b>	: 2 x Lithium System LS-M-LFP-277 578kWh 800VDC – 1C (For Eight (8) Hour Operation Alongside Cages)
<b>Life Saving Equip.</b>	: VIKING – 2 x Life Rafts	<b>DP System</b>	: JPOS Mini DP System - Navy Mini DP
<b>Accommodation</b>	: Four (4) Single Cabins – Mess and Dry Locker & Scandinavian Standards Interior Installations	<b>Controls</b>	: 1 x Dedicated ROV Operator Chair with 24" Monitors. 1 x Fwd & 1 x Aft Navigation Console with Pilot Chair Vessel Integrated Alarm and Control Monitoring System
<b>Hot Water Heater</b>	: ZET Marine 400VAC 5kW Electric Heater with Grundfos Circulation Pumps	<b>Delivery</b>	: 2023
<b>Steering Gear</b>	: Data Hidrolik – 2 x DDS Tiller Type Synchronized		

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## MACHINERY CONFIGURATION



## Electric Propulsion

SYMBOLS:	
	FW. PIPE CONNECTIONS
	EL. CABLE CONNECTIONS
	ARROW INDICATES REV.DIR ON TOP OF SHAFT

NSFI	QTY	DESCRIPTION	CAPACITY	TYPE	NSFI	QTY	DESCRIPTION	CAPACITY	TYPE
866	1	Main Battery Battery - A	578 kWh 610-780 VDC	Bertel O Steen LS-M-LFP-277 (Lithium System)	865	1	Trafo 80kVA	370-400	Bertel O Steen
603	1	Main Battery Battery-B	578 kWh 610-780 VDC	Bertel O Steen LS-M-LFP-277 (Lithium System)	865	1	Trafo 80kVA	370-400	Bertel O Steen
651	1	Main Generator 2	480 kW / 1500 Rpm 450 ekW - 400V AC 3P 50 Hz	SCANIA D116090M Stamford HCM 634G2	871	1	Main Switchboard DC Switchboard-A	610-780 VDC	Bertel O Steen
651	1	Main Generator 1	480 kW / 1500 Rpm 450 ekW - 400V AC 3P 50 Hz	SCANIA D116090M Stamford HCM 634G2	871	1	Main Switchboard DC Switchboard-B	610-780 VDC	Bertel O Steen
867	1	Drive for HPU El. Motor - C	1 x 64 kW	SHM	872	1	Aux Switchboard 400V Switchboard	400 VAC	YARD
867	1	Drive for HPU El. Motor - B	1 x 64 kW	SHM	634	1	Main Prop PS	CP Nozzled Proppler 1900mm	NOGVA HEIMDAL K450
867	1	Drive for HPU El. Motor - A	1 x 64 kW	SHM	634	1	Main Prop SB	CP Nozzled Proppler 1900mm	NOGVA HEIMDAL K450
438	1	Main HPU Skid	3 x 64 kW	SHM	637	1	Reduction Gear PS	Input: 0-1800 rpm 11,08:1	NOGVA HEIMDAL HG300SCR
404	1	Bow Thruster no.4 (AFT SB)	110 kW 1800 rpm	MPNP (VETH) Tunnel VT-90	637	1	Reduction Gear SB	Input: 0-1800 rpm 11,08:1	NOGVA HEIMDAL HG300SCR
404	1	Bow Thruster no.1 (AFT PS)	110 kW 1800 rpm	MPNP (VETH) Tunnel VT-90	625	1	El. Motor Main Prop PS	374ekW 0-1800 rpm	Bertel O Steen
404	1	Bow Thruster no.2 (FW SB)	110 kW 1800 rpm	MPNP (VETH) Tunnel VT-90	625	1	El. Motor Main Prop SB	374ekW 0-1800 rpm	Bertel O Steen
404	1	Bow Thruster no.1 (PS FWD)	110 kW 1800 rpm	MPNP (VETH) Tunnel VT-90					