

# TRX-NB103 SEAFORTH

## BATTERY HYBRID TUGBOAT

- **LOA : 12.1 m** Towing and Mooring
- **B : 5.17 m** Small Coastal Shipping
- **D : 3.5 m** Nine (9) Knots Speed
- **T : 2.55 m** Bollard Pull Four (4) Tones
- **LSW : 30 T** Electric & Hybrid & Diesel Elec.



CANADA



<b>Owner</b>	: Seaforth Environmental Services	<b>Construction</b>	: Steel Hulled and Aluminium Superstructure with Alu. Foldable Mast
<b>Construction</b>	: Steel Hulled and Aluminium Superstructure	<b>Design No</b>	: 23-004A
<b>Design</b>	: 3GA Marine Ltd. (3GA)	<b>Notations</b>	: N/A
<b>Class</b>	: Transport Canada (TC)	<b>Operation Area</b>	: Small Coastal Shipping
<b>Flag</b>	: Canada	<b>Cranes</b>	: N/A
<b>Deck Cargo</b>	: Loaded Displacement(EST.) 59.9MT	<b>Hydraulic Arrangement</b>	: Electric Powered HPU For Steering Gear – Hand Pump on Wheelhouse
<b>Electrical System</b>	: 1x Main DC Link&Danfoss Editron Drives & 230V AC 50 Hz	<b>Shore Connection</b>	: 1x250A 480V AC&Insulation Transformers
<b>Emergency Power</b>	: 24 VDC with Battery Accumulator	<b>Propulsion</b>	: FP Propulsion
<b>Main Engine</b>	: 1 X225kWe Electric (with PM motor) and FP Propulsion	<b>Side Thrusters</b>	: 1x21kWe Side Power
<b>Towing Arrangement</b>	: Towing Bit on Main Deck – Option 1 x Towing Hook	<b>Electronics</b>	: Garmin Zenitel SAILOR
<b>Generators</b>	: 1x110 kWe IMO Tier II Feeding Main DC Link	<b>Battery Capacity</b>	: 3X90 kWh 756VDC – 1C (For Two (2) Hour Mooring Operation)
<b>Life Saving Equip.</b>	: VIKING – 1 x Life Rafts	<b>DP System</b>	: N/A
<b>Accommodation</b>	: One (1) Twin Cabin with WC – High Quality Interior Installation	<b>Controls</b>	: 1 x Fwd Navigation Console and 1 x Aft Control Station & Vessel Integrated Alarm and Control Monitoring System
<b>Steering Gear</b>	: Data Hidrolik – DDS 2x150S Electrohydraulic Steering Gear	<b>Delivery</b>	: 2024

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