AZIMUTH STERN DRIVE TUG 2810
“TORMENTA 2”

**GENERAL**

Yardnumber: 513510
Delivery date: Augustus 2016
Basic functions: Towing, mooring and fire-fighting operations
Classification: * 100 A1 Tug [+] LMC UMS IWS
Flag: Cuba
Owner: Navegacion Caribe

**DIMENSIONS**

- Length overall: 28.67 m
- Beam overall: 10.43 m
- Depth at sides: 4.60 m
- Draught Aft: 4.80 m
- Displacement: 446 t

**TANK CAPACITIES**

- Fuel oil (service): 72.3 m³
- Potable water (service): 14.9 m³
- Lubrication oil: 9.0 m³
- Dirty oil: 3.1 m³
- Sewage: 2.2 m³
- Sludge: 3.1 m³
- Bilgewater: 5.1 m³
- Foam: 6.5 m³

**PERFORMANCES**

- Bollard pull ahead: 60.4 t
- Bollard pull astern: 56.9 t
- Speed ahead: 13.5 kn
- Speed astern: 13.5 kn

**ELECTRICAL EQUIPMENT**

- Generator sets: 2x Perkins, Leroy Somer LSAM 44.2 S7, 440V, 123kVA, 60Hz
- Forced ventilation: 27.500 m³/h

**DECK LAY-OUT**

- Anchors: 2x 360kg (High Holding Power)
- Anchor/Towing winch: Hydraulically two speed split drum and warping head 35 ton up to 9.2 m/min, reduced pull up to 28 m/min, 150 ton brake
- Chain (tot.): Ø 19.0mm stud-link 302.5 m
- Deckcrane: Heila HLM 10 - 3S or equivalent
- Fendering: Cylinder + block bow fender with waterspray, D-fender at sides, cylinder fender at transom corners

**SECONDARY SHIP SYSTEMS**

- Fire-Fighting system: Diesel driven 2500 m³/hr with 2x 1200 m³/hr monitors
- Bilge/GS pump: 2x Sterling AKHK 5101, 20 m³/hr
- Fuel oil system: Sterling ACHA3101, 4.5 m³/hr
- Cooling system: Box cooling
- Freshwater system: Sterling ACHA 1202
- Freshwater heater: Gesto 1201hr

**ACCOMMODATION**

The accommodation is for 8 persons completely insulated and finished with durable modern livings, acoustical Dampa ceiling in the wheelhouse and a floating floor. The air conditioned wheelhouse is fitted with a corner settee with table and a control position. Below deck a galley and sanitary facilities and a store are provided. With one captain’s cabin, one chief engineers cabin and three double cabins.

**NAUTICAL AND COMMUNICATION EQUIPMENT**

- Searchlight: 2x Pesch Xenon 450W
- Horn: Ibuki 130dB
- Radar: 2x Furuno FAR 2117 with 19” screen
- Compass: Cassens & Plath magnetic Kotter
- Satellite compass: Furuno SC 50
- Autopilot: SIMRAD AP-50
- GPS: Furuno GP-170
- Echosounder: Furuno FE-800
- VHF radio: 2x Sailor 6222 (one with DCS)
- Immarsat: Furuno Felcom 18
- Navtex: Furuno NX-700A
- AIS: Furuno FA-150
- EPIRB: Jotron Tron-60S
- SART: Jotron Tron Sart

**PROPULSION SYSTEM**

- Main engines: 2x MTU 16V4000M63R 1A
- Total Power: 3680bkW (4945bhp) at 1600 rpm
- Azimuth thrusters: 2x Rolls Royce US 205
- Propeller diameter: Ø 2400 mm
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