



# 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 Firefighting ship 1
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 m <sup>3</sup>
Potable water (service)	14.9 m <sup>3</sup>
Lubrication oil	9.0 m <sup>3</sup>
Dirty oil	3.1 m <sup>3</sup>
Sewage	2.2 m <sup>3</sup>
Sludge	3.1 m <sup>3</sup>
Bilgewater	5.1 m <sup>3</sup>
Foam	6.5 m <sup>3</sup>

## PERFORMANCES

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

## 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

## ELECTRICAL EQUIPMENT

Generator sets	2x Perkins, Leroy Somer LSAM 44.2 S7, 440V, 123kVA, 60Hz
Forced ventilation	27.500 m <sup>3</sup> /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 Ø 19.0mm stud-link 302.5 m
Chain (tot.)	Heila HLM 10 - 3S or equivalent
Deckcrane	Lifting capacity : 0.8 ton (metric) at 10.36 meter
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 m <sup>3</sup> /hr with 2x 1200 m <sup>3</sup> /hr monitors
Bilge/GS pump	2x Sterling AKHK 5101, 20 m <sup>3</sup> /hr
Fuel oil system	Sterling AOHA3101, 4.5 m <sup>3</sup> /hr Sterling AKHA 4101, 10.8 m <sup>3</sup> /hr (transfer)
Cooling system	Box cooling
Freshwater system	Sterling AOHA 1202
Freshwater heater	Gesta 120ltr

## 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.

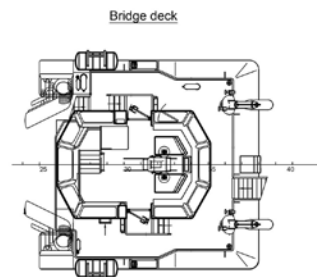
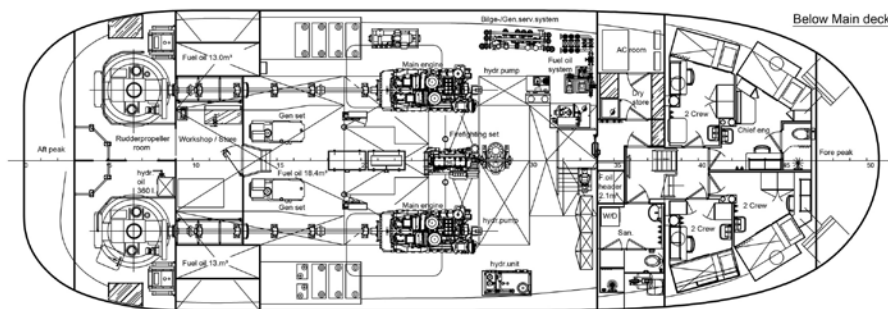
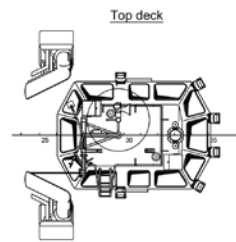
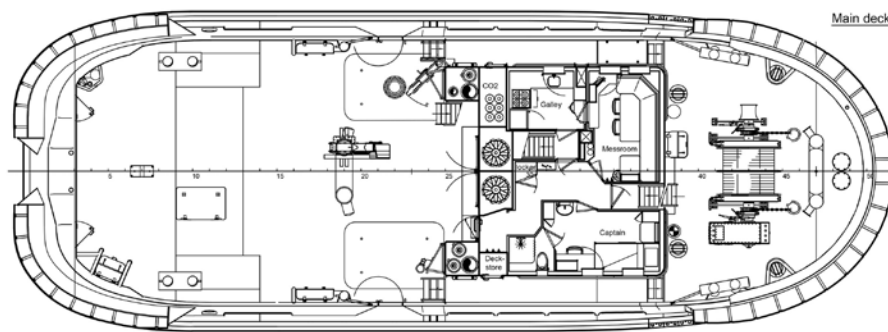
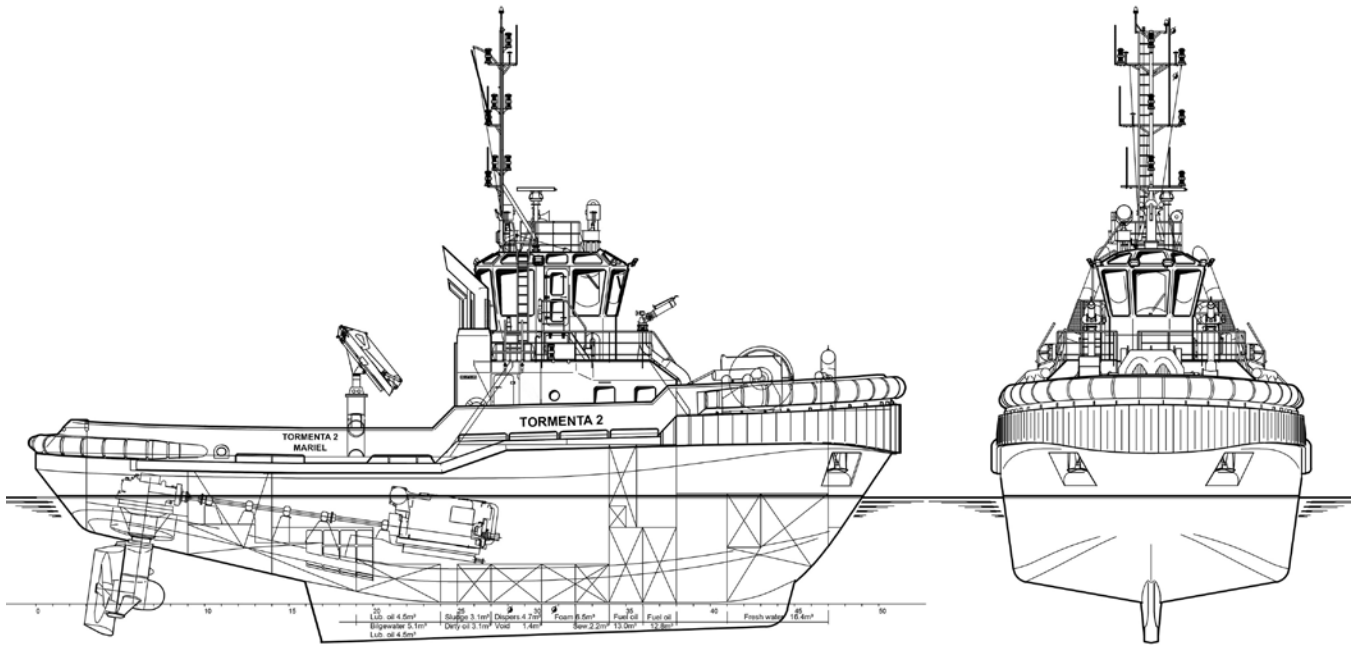
## NAUTICAL AND COMMUNICATION EQUIPMENT

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

**DAMEN**

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