

# AZIMUTH STERN DRIVE TUG 2411

"COLUMBIA"

#### **GENERAL**

Yard number 513410 Delivery date May 2017

Basic functions Towing, mooring and fire-fighting Classification

Bureau Veritas

I № HULL • MACH Tug Unrestricted Navigation AUT UMS Inwater Survey Fire Fighting Ship 1 Water spray

Flag Rimorchiatori Riuniti Porto di Genova Owner

## **DIMENSIONS**

Length overall	24.47 m
Beam overall	11.33 m
Depth at sides	4.60 m
Draught aft	5.61 m
Displacement	492 t

## **TANK CAPACITIES**

Fuel oil	67.6 m <sup>3</sup>
Fresh water	8.8 m <sup>3</sup>
Sewage	3.2 m <sup>3</sup>
Foam	6.3 m <sup>3</sup>
Dispersant	3.1 m <sup>3</sup>
Dirty oil	2.9 m <sup>3</sup>
Lubrication oil	4.8 m <sup>3</sup>
Bilge water	2.0 m <sup>3</sup>

## **PERFORMANCES**

Bollard pull ahead	71.0 t
Bollard pull astern	69.0 t
Speed ahead	13.2 kn
Speed astern	13.0 kn

## **PROPULSION SYSTEM**

2x Caterpillar 3516C TA HD+/D Main engines Total power 4200 bkW (5632 bhp) at 1600 rpm Azimuth thrusters Rolls Royce US 255 Propeller diameter 2600 mm fixed pitch Forced ventilation 30.000 m<sup>3</sup>/h

#### **AUXILIARY EQUIPMENT**

2x Caterpillar C4.4 TA, 86 kVA, 230/400 V, 50 Hz Main generator sets General service pump 2x Sterling AKHA 5101, 20 m<sup>3</sup>/h at 14 m.w.g. Fuel oil header pumps 2x Sterling R35/40, 3.4 m3/h at 4 bar Fuel oil filters 2x Nelson coalester type Sewage treatment plant Tecnicomar ECOmar 20

Bilge water separator Facet capacity 0.5m<sup>3</sup> Oil pollution control

Dispersant pump set with 2 spraybooms Diesel driven pump of 2700 m<sup>3</sup>/h (Fire Fighting Ship 1) and two Fifi system

electrically controlled monitors of 1200 m³/h each

### **DECK LAY-OUT**

Waterspray

2x 360 kg Pool (High Holding Power) Anchor/towing winch Hydraulically driven two speed split drum and warping head 33 ton up to 11 m/min, reduced pull up to 51 m/min, 150 ton brake on

second layer

Electrically driven, 5 ton at 15 m/min Mampaey SWL 100 ton Capstan Towing hook fore

Towing hook aft Mampaey SWL 100 ton

Fendering Cylinder + block bow fender with water spray, D-fender side/aft,

cylinder fender at transom corners Workboat 1x 4-meter inflatable workboat with 25 hp outboard engine

#### **ACCOMMODATION**

Air-conditioned and heated accommodation spaces for up to 4 persons, consisting of one captain's cabin, one chief engineer's cabin and one double crew cabin, galley, mess room and sanitary spaces.

## NAUTICAL AND COMMUNICATION EQUIPMENT

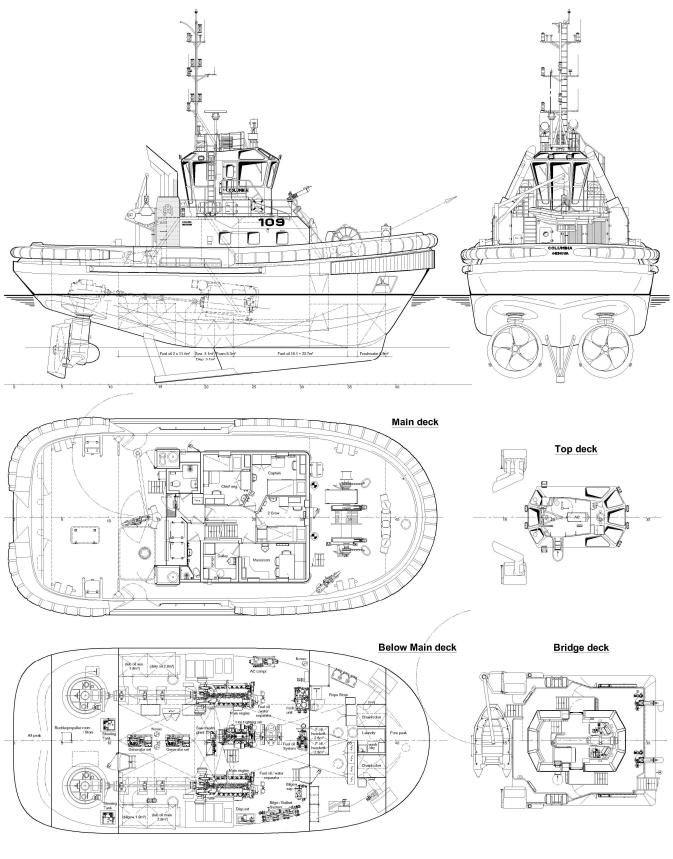
Search light (FIFI 1) 2x Pesch, 450 W, Xenon Radar system Furuno FAR-2117 Autopilot Robertson AP-70 DGPS Furuno GP-170D Furuno FE-800 Echosounder VHF 2x Sailor Compact 6222 2x Jotron TRON TR-20 VHF hand-held Compass 2x Magnetic, Kotter type Speed log Furuno DS-80 Navtex Furuno NX-700 AIS Furuno FA-150 EPIRB Jotron Tron-60S Jotron Tronsart20 Sart

Anemometer Observator Windsonic OMC 115



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## DUMEN

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