



DAMEN STAN TUG® 1907

"ALJAROOF" AND "ALJALBOOT"

GENERAL

YARD NUMBER	503420-21
DELIVERY DATE	July 2010
BASIC FUNCTIONS	Towing, pushing, mooring and fire fighting operations
CLASSIFICATION	Lloyd's Register ✱ 100 A1 Tug [✱] LMC
FLAG	Qatar
OWNER	Qatar Emiri Naval Forces

DIMENSIONS

LENGTH O.A.	19.54 m
BEAM O.A.	7.74 m
DEPTH AT SIDES	3.39 m
DRAUGHT AFT	3.19 m
DISPLACEMENT	204 ton

TANK CAPACITIES

FUEL OIL	26.4 m ³
FRESH WATER	4.6 m ³
FOAM	4.3 m ³
SEWAGE	1.7 m ³
BILGE WATER	1.3 m ³
LUB. OIL	1.1 m ³
DIRTY OIL	1.0 m ³

PERFORMANCES (TRIALS)

BOLLARD PULL AHEAD	26.0 ton
SPEED	11.5 knots

PROPULSION SYSTEM

MAIN ENGINES	2x Caterpillar 3508B TA/C
TOTAL POWER	1492 bkW (2000 bhp) at 1600 rpm
GEARBOXES	2x Reintjes WAF 562L 5.421:1
PROPELLERS	2x Kaplan II fixed pitch propeller
STEERING GEAR	Powered hydraulic 2x 45°, with rudder indicator
NOZZLES	2x 1800 mm Van de Giessen Optima
RUDDERS	2x streamlined, double plate
BOWTHRUSTER	HRP, 80 kW, hydraulically driven

AUXILIARY EQUIPMENT

GENERATOR SET	2x Caterpillar C4.4, 230 / 400 V, 47 kVA, 50 Hz
BATTERY SETS	2x 24 V 400 Ah + change over facility
BILGE PUMP	Sterling VW20, 24 m ³ /hr at 10 m.w.g. electrically driven
FUEL OIL SYSTEM	Duplex filters, water separator + SOS valve
COOLING WATER SYSTEM	Closed cooling system
FRESH WATER SYSTEM	Electrical hydrophore and sewage pump
VENTILATION	2x Salor, HU60, cap. 15.000 m ³ /hr, electrically driven
FIFI SET	Caterpillar 3056TA, 300 m ³ /hr at 10 bar
FIFI MONITOR	1x 300 m ³ /hr for water/foam

DECK LAY-OUT

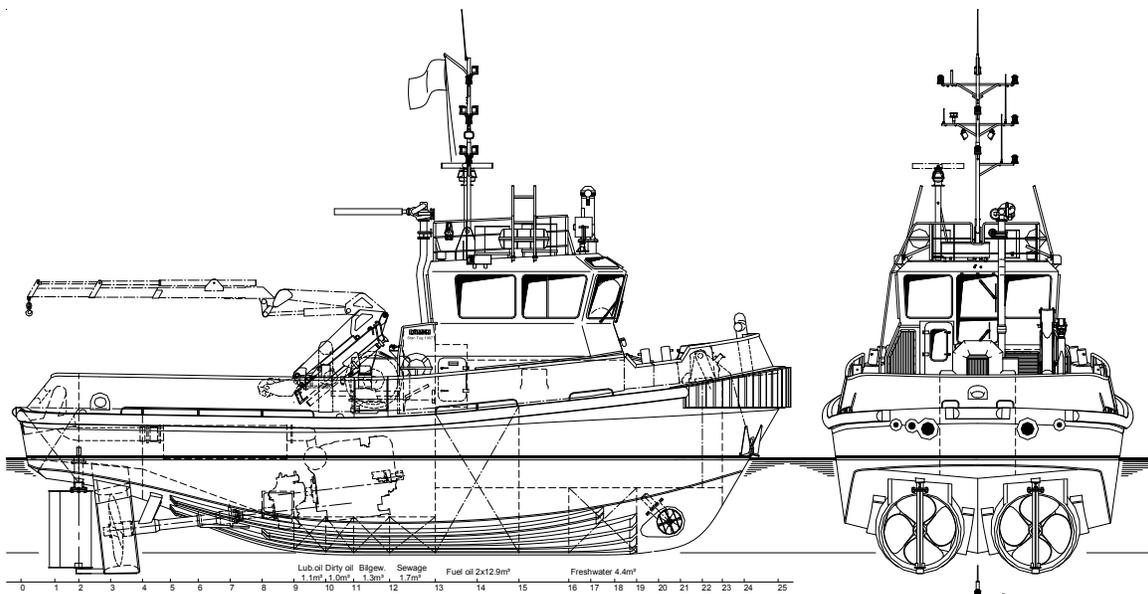
ANCHORS	2x 180 kg Pool (HHP)
CHAIN	275 m shortlink chain 16mm
ANCHOR WINCH	Kraaijeveld, electrically driven with warping head
HYDRAULIC CRANE	Heila HLM 20-2S, 2.2 ton at 8.6 m
TOWING HOOK	Mampaey, disc type SWL 450 kN
TOWING WINCH AFT	Kraaijeveld 10 ton at 10 m/min.
FENDERS	Rubber D-fendering around the hull and rubber block fender at the bow
LIFE RAFTS	Two on top deck, 6 persons each

ACCOMMODATION

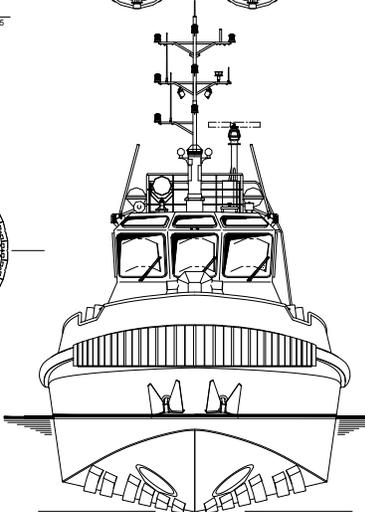
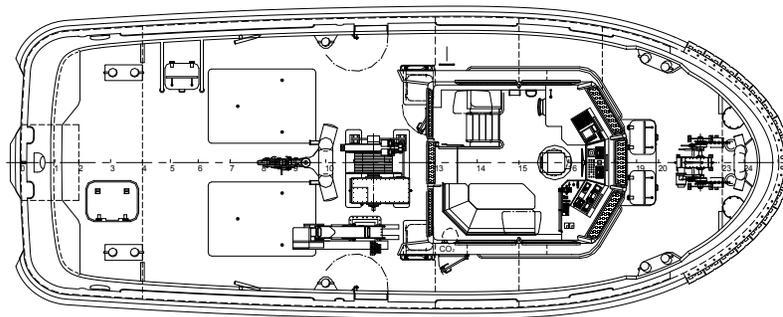
Accommodation for 5 persons, completely insulated and finished with durable modern linings, acoustical Dampa ceiling in the wheelhouse and Bolidt floating floors. Air-conditioned accommodation, with Captain's cabin, four crew cabin, a pantry and sanitary space below main deck.

NAUTICAL AND COMMUNICATION EQUIPMENT

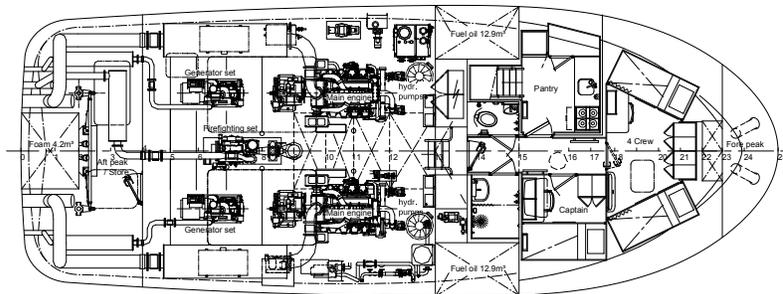
SEARCHLIGHT	Pesch, 24V, 500 W
RADAR	Furuno FR-8062
COMPASS	Magnetic Kottter
AUTOPILOT	Simrad, AP-50
GPS	Furuno GP-150
VHF RADIO'S	Sailor RT5022
ECHOSOUNDER	Furuno LS-6100
ANEMOMETER	Obsermet OMC-115



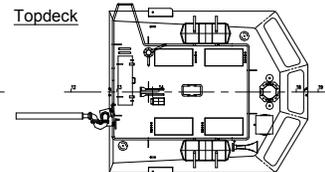
Maindeck



Below Maindeck



Topdeck



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DAMEN SHIPYARDS GORINCHEM

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