



## DAMEN ASD TUG® 2310

### "TANCRED"

#### GENERAL

YARD NUMBER	512904
DELIVERY DATE	July 2012
BASIC FUNCTIONS	Towing, mooring, push pull operations
CLASSIFICATION	Bureau Veritas I ✱ HULL • MACH Tug Unrestricted Navigation AUT UMS *IWS Incl. tonnage and loadline certificate Australia
FLAG	
OPERATOR	DMS Maritime Pty. Ltd.

#### DIMENSIONS

LENGTH O.A.	22.73 m
BEAM O.A.	10.43 m
DEPTH AT SIDES	4.50 m
DRAUGHT AFT	4.40 m
DISPLACEMENT (98% CONSUMABLES)	325 ton

#### TANK CAPACITIES

FUEL OIL	61.6 m <sup>3</sup>
FRESH WATER	7.9 m <sup>3</sup>
SEWAGE	2.9 m <sup>3</sup>
DIRTY OIL	1.9 m <sup>3</sup>
LUBRICATION OIL	1.9 m <sup>3</sup>
BILGE WATER	0.9 m <sup>3</sup>
LUB. OIL (AUXILIARIES)	0.9 m <sup>3</sup>

#### PERFORMANCES (TRIALS)

BOLLARD PULL AHEAD	47.6 ton(m)
BOLLARD PULL ASTERN	44.2 ton(m)
SPEED AHEAD	12.6 knots
SPEED ASTERN	12.0 knots

#### PROPULSION SYSTEM

MAIN ENGINES	2x Caterpillar 3512C TA HD+ / C
TOTAL POWER	3000 bkW (4023 bhp) at 1600 rpm
AZIMUTH THRUSTERS	Rolls Royce US 205MK1
CLUTCHES (ON-OFF TYPE)	Rolls Royce "Built in" type
PROPELLER DIAMETER	2200 mm
FORCED VENTILATION	50.000 m <sup>3</sup> /hr

#### AUXILIARY EQUIPMENT

GENERATOR SETS	2x Caterpillar C4.4T, 230/400 V, 64.5 kVA, 50 Hz
BILGE PUMPS	2x Sterling SIHI AKHA 5101, 20 m <sup>3</sup> /hr
FUEL PUMPS	2x Sterling SIHI AOHA 3101, 4.5 m <sup>3</sup> /hr
FUEL FILTERS	2x Coalester filters incl. water separator
COOLING SYSTEM	Box cooling + anti growth system
HYDRAULIC SYSTEM	Double main engine driven pumps

#### DECK LAY-OUT

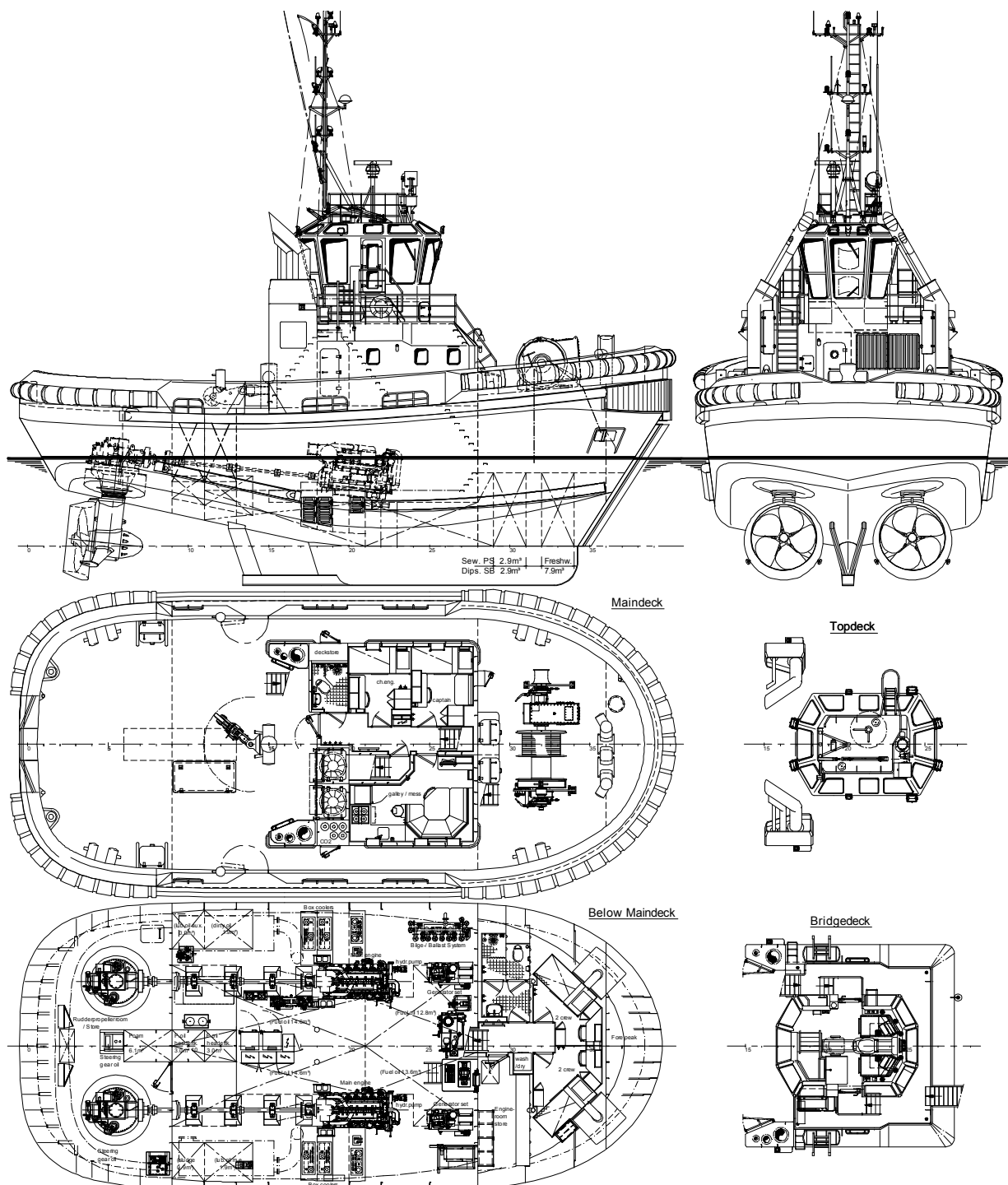
ANCHORS	2x 360 kg Pool (High Holding Power)
ANCHOR/TOWING WINCH	Hydraulically driven split drum, pull 18 ton at 11m/min and slack rope at 33 m/min, 130 ton brake at second layer
	Mampaey, SWL 650 kN
	Grey cylinder/ block fender at bow, grey D-fender at side and chine grey cylinder fenders at aft corner.
TOWING HOOK AFT	
FENDERING	

#### ACCOMMODATION

Accommodation for 6 persons, completely insulated and finished with durable modern linings, acoustic Dampa ceiling in the wheelhouse and Bolidt floating floors. Air-conditioned accommodation with 2 cabins above maindeck and 2 cabins below deck, galley/mess, sanitary facilities and switchboard room.

#### NAUTICAL AND COMMUNICATION EQUIPMENT

SEARCHLIGHT	Pesch 1000 W
RADAR SYSTEM?	Furuno FAR 2117
GPS NAVIGATOR	Furuno GP-150
COMPASS	Magnetic Kotter
AUTOPILOT	Simrad AP-50
ECHOSOUNDER	Furuno FE-700
VHF RADIO TELEPHONE	2x Sailor 6222, one with DSC
VHF HAND-HELD	2x VHF hand-held, GMDSS approved
UHF HAND-HELD	Motorola GP340
SSB	Furuno FS-1570
AIS	Furuno FA-150
INMARSAT + SPARE	2x Furuno Felcom 15
EPIRB	Jotron Tron-40s
SART	Jotron Tron Sart



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"TANCREO"

**DAMEN**

DAMEN SHIPYARDS GORINCHEM

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