



## DAMEN ASD TUG® 2810

### "ABEILLE DALIA"

#### GENERAL

YARD NUMBER	511525
DELIVERY DATE	March 2007
BASIC FUNCTIONS	Towing, mooring and fire fighting operations
CLASSIFICATION	Bureau Veritas 1 ✕ HULL • MACH Tug Unrestricted Navigation AUT UMS Fire Fighting Ship 1 GMDSS cert. A2
FLAG	Morocco
OWNER	Les Abeilles Tanger Med SA

#### DIMENSIONS

LENGTH O.A.	28.67 m
BEAM O.A.	10.43 m
DEPTH AT SIDES	4.60 m
DRAUGHT AFT	4.74 m
DISPLACEMENT	519 ton

#### TANK CAPACITIES

FUEL OIL	96.5 m <sup>3</sup>
FRESH WATER	14.9 m <sup>3</sup>
FOAM	6.5 m <sup>3</sup>
LUBRICATION OIL	6.2 m <sup>3</sup>
DIRTY OIL	2.2 m <sup>3</sup>
SEWAGE	2.2 m <sup>3</sup>
SLUDGE	2.2 m <sup>3</sup>
BILGEWATER	5.5 m <sup>3</sup>
DISPERSANT	4.3 m <sup>3</sup>

#### PERFORMANCES (TRIALS)

BOLLARD PULL AHEAD	59.0 ton(m)
BOLLARD PULL ASTERN	55.1 ton(m)
SPEED AHEAD	13.6 knots
SPEED ASTERN	13.5 knots

#### PROPULSION SYSTEM

MAIN ENGINES	2x Caterpillar 3516B TA HD / C
TOTAL POWER	3678 bkW (4930 bhp) at 1600 rpm
AZIMUTH THRUSTERS	2x Rolls Royce US 205
PROPELLER DIAMETER	2400 mm
SLIPPING CLUTCHES	Twin Disc MCD 3000-6 HD

#### AUXILIARY EQUIPMENT

GENERATOR SETS	2x Caterpillar 3056 T, 230/400 V, 105 kVA, 50 Hz
BILGE PUMPS	2x Sterling SIHI AKHA 5101 each 20 m <sup>3</sup> /hr
FUEL PUMPS	Sterling SIHI AKHA 4101 and AOHA 3101
COOLING SYSTEM	Box cooling + anti marine growth system
PRESSURE SET	Freshwater SIHI AOHA 1202
SEWAGE TREATMENT PLANT	Hamann Supermini
HYDRAULIC SYSTEM	Double main engine driven pumps
OIL POLLUTION CONTROL	Dispersant pumpset with 2 spraybooms
FIFI PUMPS	Main engine driven driven pumps, through Norgear step-up boxes, 2x 1200 m <sup>3</sup> /hr, make Kvaerner
FIFI MONITOR	2 x 1200 m <sup>3</sup> /hr, water/foam, make Skum

#### DECK LAY-OUT

ANCHORS	2x 360 kg Pool (High Holding Power)
ANCHOR/TOWING WINCH	DMT, hydraulically driven 18 ton pull at 11 m/min. or 9 ton pull at 22 m/min, 150 ton brake
CAPSTAN	5 ton at 15 m/min. Electrically driven
TOWING HOOK	Mampaey 65 ton
FENDERING	D-fender at sides and stern, cylinder and W-block bow fender

#### ACCOMMODATION

Accommodation for 8 persons, completely insulated and finished with durable modern linings, acoustical Dampa ceiling in the wheelhouse and floating floors. Air-conditioned accommodation, with 5 cabins above the waterline, galley, mess/dayroom, workshop and sanitary facilities.

#### NAUTICAL AND COMMUNICATION EQUIPMENT

SEARCHLIGHT	2x Pesch 1000 W
RADAR SYSTEM	Furuno FR-1505 mk III
COMPASS	Magnetic Kotter
GPS	Furuno GP-150
ECHOSOUNDER	Furuno LS-6100
VHF RADIO TELEPHONE	2x Sailor RT5022 with DSC
SSB RADIO	Furuno FS-1570 with watch receiver and DSC
NAVTEX RECEIVER	Furuno NX-700
AIS	Furuno FA-150

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