Azimuth Stern Drive Tug 3413 ICE

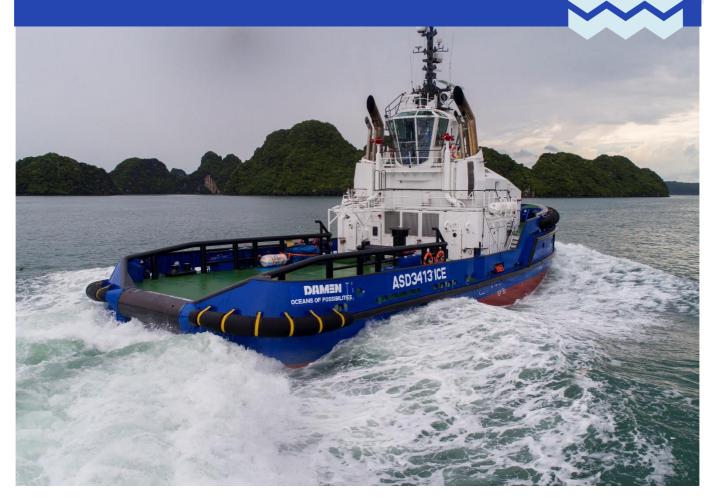


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GENERAL		PERFORMANCES	
Basic functions	Harbour and (LNG) terminal (un)berthing (push-	Bollard pull ahead	72 t
	pull), escort, coastal and offshore towing,	Bollard pull astern	68 t
	icebreaking/management, fire-fighting, oil	Speed ahead	14 kn
	pollution control, pilot and personal transfer and	Ice performance	3 kn in 1 m first-year level ice, 8 kn in 1.1 m first-year floe ice
	salvage operations		
Classification	Bureau Veritas	AUXILIARY EQUIPMEN	T
	I	Generator sets (suitable for	2x Caterpillar C9.3 TA, 230/400 V, 313 kVA, 50 Hz
	Navigation AUT UMS ICE CLASS IA SUPER	parallel operation)	
	INWATER SURVEY Fire Fighting Ship E	Emergency generator set	1x Caterpillar C4.4 TA, 230/400 V, 103 kVA, 50 Hz
	Salvage Tug SYS-NEQ 1 Oil recovery second- line COLD (-40, -40)	Shore power	125 A
Polar code	Compliant	General service pumps	2x Azcue CA-50/3B, 27 m ³ /h at 3.4 bar
	Epoxy paint system, abrasion resistant low	Bilge water pump	Azcue CA-32/05, 3.6 m ³ /h at 1.1. bar
Painting	friction ice coating on hull	Bilge water separator	Facet CPS-2.5 B MK III + EBM14X1, 0.5 m3/h (15 ppm)
	Inclion ice coaling on hui	Emergency firefighting pump	
DIMENCIONS		Fuel transfer pump	Azcue CA40-1B, 12 m ³ /h at 1.2 bar
DIMENSIONS	00.15	Fuel oil purifiers (dynamic)	2x GEA Westfalia OTC-2-02-137, 1150 l/h 4x CJC PTU 27/81 MZ-E2PWZ
Length overall	33.45 m	Fuel oil purifiers (static) Cooling system	
Beam overall Depth at sides	12.53 m 5.65 m	Fresh water pressure set	Box cooled + anti-growth system Azcue MO-19/10
Draught aft	7.10 m	Sewage pump	Distrimex B40 6.6 m ³ /h at 1.5 bar
Displacement (98%)	1140 t approx.	Sewage treatment plant	Selmar Blue Sea 2500
Gross tonnage	570 t	Exhaust gas after treatment	IMO Tier 3 Selective Catalytic Reduction system (SCR) for propulsion engine
Gross torinage	5701	Exhaust gas alter treatment	main generator sets and fire fighting engine
		LNG-terminal operations	Fixed gas detection, EEBD's
TANK CAPACITIES	130.1 m ³	Hydraulic system	Electrically driven hydraulic pumps
Fuel oil (incl. long range tanks) Fuel oil	130.1 m ^o 107.4 m ³	Compressed air system	2x compressors and air bottles for starting and service air
Fuel oli Fresh water	17.4 m ³	Oil pollution control	Oil recovery equipment excluded
Sewage	8.6 m ³	Fifi set	Driven by Caterpillar C12, FIFI pump 1000 m ³ /h incl. water spray
Dirty lubrication oil	5.4 m ³	Fifi monitors	2x 360 m ³ /h, water/foam
Clean lubrication oil	2.8 m ³	Water spray	Approx. 400 m3/h
Bilge water	8.6 m ³		
Foam	10.0 m ³		
	5.0 m ³		
Urea	5.0 m ⁻		



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DECK LAY-OUT

Anchors Anchor winches

Towing winch fore Double drum (side by side, in heated winch room)

Towing winch aft Double drum (side by side, in heated winch room)

Hydraulic guide pins Container fittings Capstan aft Capstan fore Crane

Towing hook aft Stern roller

Flush gob eye

Rescue boat + davit

Platform/ladder

Fendering

2x 585 kg Pool (High Holding Power) 2x DMC, hauling speed anchor part minimal 9 m/min 1x DMC hydraulically driven winch High pull/low speed 35 t up to 10 m/min, slack rope speed up to 35 m/min, brake 200 ton, 2x 130 m rope Euroflex 96 mm + 20 m forerunner Euroflex 96 mm Lurotiex 96 mm 1x DMC hydraulically driven winch With spooling device, high pull/low spe up to 11 m/min, slack rope speed up t m/min, 200 ton brake, 2x 480 m steel mm + 20 m forerunner Euroflex 96 mn Hydraulic tow line guide pins instead o 2x 20 1x DMC electrically driven, 5 ton at 15 1x DMC electrically driven, 5 ton at 15 Heila HLRM 65-4S 4.65 ton at 12.72 m ton winch Mampaey SWL 100 ton SWL 100 ton, length approx. 3.7 m, dia m (incl. removable bulwark) Centreline recessed connector on aft of steel cover plate 1x SOLAS approved 4-meter inflatable boat with 25 hp outboard engine, oper rescue boat davit Port side and starboard side fore deck the bulwark, boarding platform at cent bow, pilot ladders D-fender at sides, cylindrical fender at corners, cylindrical and W-block bow f water spray, tyre fenders bow, sides a

ACCOMMODATION

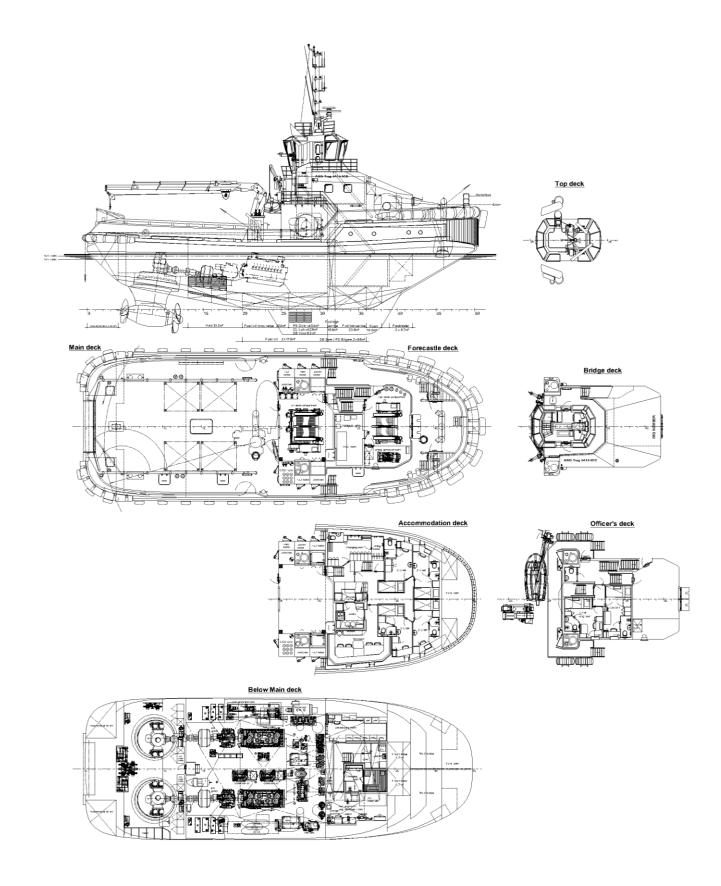
For max. 10 persons (MLC compliant), insulated and finished with durable modern linings, acoustical ceiling in the wheelhouse, mess room and cabins, floating floors with floor heating and oil fired heated/air-conditioned. Officer's deck with captain's cabin, chief engineer's cabin and toilet. Accommodation deck with four double crew cabins, galley, mess/dayroom, dry store, sanitary facilities, changing room and drying locker. Below main deck with laundry, dry store, wellness room with changing room and shower.

NAUTICAL AND COMMUNICATION EQUIPMENT (GMDSS A3)

	Mast	Fixed
	Searchlights	2x Norselight 2000 W
peed 30 ton	Radar system (X-band)	Transas NR 4000 MFD 19
to 37.5	Ice radar system	Rutter Sigma S6
l wire 54	Radar system (S-band)	Transas NR 4000 MFD 19
ım	ECDIS	Transas NS 4000 Standard Plus 19
of manual	DGNSS GLONAS/GPS	Cobham (Thrane & Thrane) SAILOR 6570
	Compass (magnetic)	Cassens & Plath Reflecta 11
5 m/min	Gyro compass	Sperry Marine Navigat 100
5 m/min	Satellite compass	JRC JLR-21
m with 5	Autopilot .	Sperry Marine Navipilot 4000+ BASIC
	Echo sounder	Skipper ESN100
	Speed log	Consilium SAL R1a, WT
diameter 1.2	Intercom	Phontech CIS 3101
	CCTV	19" monitor with 14 camera's covering ER, accommodation, deck and winch
t deck with		rooms
	VHF (with DSC)	2x Cobham (Thrane & Thrane) Sailor 6222
le rescue	Fire-Fighter radio (UHF)	5x Cobham (Thrane & Thrane) Sailor 3965 Fire Fighter
erated by	VHF hand-held	3x Cobham (Thrane & Thrane) Sailor SP3520
	AIS	Cobham (Thrane & Thrane) 6280
k against	SSB (MF/HF)	Cobham (Thrane & Thrane) Sailor 6310 MF/HF 150 W
ntre line	Navtex	JRC NCR-333
	Inmarsat systems	2x Cobham (Thrane & Thrane) Sailor 6110 Mini-C
at transom	Iridium terminal	1x Cobham (Thrane & Thrane) Sailor 4300 L-band
fender with	EPIRB	1x ASNAP-M COSPAS-SARSAT GPS/GLONASS/Galileo class 1
and aft	SART	2x Dreif
	Air-band communication	Hand-held Icom IC-A114
	Sound reception system	Jotron Phontech 8300Mk2
	VDR	Consilium VDR F2
	Anemometer / weather station	n 2x Morsvyazavtomatika "periscope" anemometer / weather station



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