Azimuth Stern Drive Tug 3413 ICE





>> PICTURE OF SIMILAR VESSEL

GENERAL		PERFORMANCES	
Basic functions	Harbour and (LNG) terminal (un)berthing (push-	Bollard pull ahead	72 t
Basic functions	pull), escort, coastal and offshore towing,	Bollard pull astern	68 t
	icebreaking/management, anchor handling,		14 kn
		Speed ahead	
	buoy handling, fire-fighting, oil pollution control,	Ice performance	3 kn in 1 m first-year level ice, 8 kn in 1.1 m first-year floe ice
	pilot and personal transfer and salvage		
0	operations	AUXILIARY EQUIPMEN	
Classification	Bureau Veritas	Generator sets (suitable for	2x Caterpillar C9.3 TA, 230/400 V, 313 kVA, 50 Hz
	I HULL MACH Escort Tug Unrestricted	parallel operation)	
	Navigation AUT UMS ICE CLASS IA SUPER	Emergency generator set	1x Caterpillar C4.4 TA, 230/400 V, 103 kVA, 50 Hz
	INWATER SURVEY Fire Fighting Ship E	Shore power	125 A, Ø separation transformer
	Salvage Tug SYS-NEQ 1 Oil recovery second-	General service pumps	2x Azcue CA-50/3B 27 m ³ /h at 3.4 bar
	line COLD (-40, -40)	Bilge water pump	Azcue CA-32/05 3.6 m ³ /h at 1.1. bar
	Ø Clean Ship Ø Green Passport EU	Bilge water separator	Facet CPS-2.5 B MK III + EBM14X1 0.5 m3/h (15 ppm)
	Ø Anchor handling	Emergency firefighting pump	Azcue CA-50/3B 27 m ³ /h at 3.4 bar
Polar code		Fuel transfer pump	Azcue CA40-1B 12 m ³ /h at 1.2 bar
	Compliant	Fuel oil purifiers (dynamic)	2x GEA Westfalia OTC-2-02-137, 1150 l/h
Painting	Epoxy paint system, abrasion resistant low	Fuel oil purifiers (static)	4x CJC PTU 27/81 MZ-E2PWZ
	friction ice coating on hull	Cooling system	Box cooled + anti-growth system
		Fresh water pressure set	Azcue MO-19/10
DIMENSIONS		Ø Fresh water maker	Watermaker Sailor C S 3/21 3840 I/day
Length overall	33.45 m	Sewage pump	Distrimex B40 6.6 m ³ /h at 1.5 bar
Beam overall	12.53 m	Sewage treatment plant	Selmar Blue Sea 2500
Depth at sides	5.65 m	Ø Lubrication oil filtration	Offline filtration system for main engines and/or azimuth thrusters
Freeboard main deck midship in		Exhaust gas after treatment	IMO Tier 3 Selective Catalytic Reduction system (SCR) for propulsion engines,
98% loading condition (approx.)			main generator sets and fire fighting engine
Draught aft	7.10 m	Ø Exhaust extinguishing	CO ₂ fire extinguishing system for main engines and generator sets
Displacement (98%)	1140 t approx.	LNG-terminal operations	Fixed gas detection, EEBD's
Gross tonnage	570 t	Hydraulic system	Electrically driven hydraulic pumps
		Compressed air system Ø Oil pollution control	2x compressors and air bottles for starting and service air
TANK CAPACITIES		Oil pollution control	Dispersant pump set with 2 spray booms Oil spill recovery equipment not included
Fuel oil (incl. long range tanks)	130.1 m ³	Fifi set	Driven by Caterpillar C12, FIFI pump 1000 m ³ /h incl. water spray
Fuel oil	107.4 m ³	Fifi monitors	2x 360 m ³ /h, water/foam
Fresh water	17.4 m ³	Water spray	Approx. 400 m3/h
Sewage	8.6 m ³	water spray	Арріох. 400 пізлі
Dirty lubrication oil	5.4 m ³	*Items marked with Ø are optional e	aninment
Clean lubrication oil	2.8 m ³	nems manee war o are optionare	Salphent
Bilge water	8.6 m ³		
Foam	10.0 m ³		
Ø Dispersant	6.3 m ³		
Urea	5.0 m ³		
Recovered oil	28.8 m ³		



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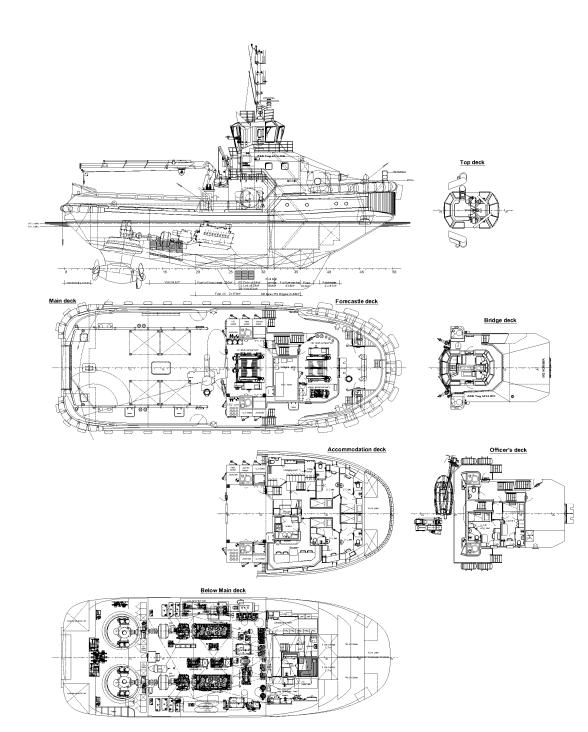
DECK LAY-OUT

DECK LAY-OUT		ACCOMMODATION		
Anchors	2x 585 kg Pool (High Holding Power)	For max. 10 persons (MLC compliant), insulated and finished with durable modern linings, acoustical ceiling in		
Anchor winches	2x DMC hauling speed anchor part minimal 9		m and cabins, floating floors with floor heating and oil fired heated/air-conditioned.	
	m/min	Officer's deck with captain's cabin, chief engineer's cabin and toilet. Accommodation deck with four double		
Towing winch fore	1x DMC hydraulically driven winch		dayroom, dry store, sanitary facilities, changing room and drying locker. Below mai	
Double drum (side by side, in	High pull/low speed 35 t up to 10 m/min, slack	deck with laundry, dry store, sauna with changing room and shower.		
heated winch room)	rope speed up to 35 m/min, brake 200 ton, 2x			
	130 m rope Euroflex 96 mm + 20 m forerunner	NAUTICAL AND COM	MUNICATION EQUIPMENT (GMDSS A3)	
	Euroflex 96 mm	Mast	Fixed	
Towing winch aft	1x DMC hydraulically driven winch	Searchlights	2x Norselight 2000 W	
Double drum (side by side, in	With spooling device, high pull/low speed 30 ton	Radar system (X-band)	Transas NR 4000 MFD 19	
heated winch room)	up to 11 m/min, slack rope speed up to 37.5	Ice radar system	Rutter Sigma S6	
	m/min, 200 ton brake, 2x 480 m steel wire 54	Radar system (S-band)	Transas NR 4000 MFD 19	
The tax Barry March 1	mm + 20 m forerunner Euroflex 96 mm	ECDIS	Transas NS 4000 Standard Plus 19	
Hydraulic guide pins	Hydraulic tow line guide pins instead of manual	DGNSS GLONAS/GPS	Cobham (Thrane & Thrane) SAILOR 6570	
Container fittings	2x 20'	Compass (magnetic)	Cassens & Plath Reflecta 11	
Capstan aft	1x DMC electrically driven, 5 ton at 15 m/min	Gyro compass	Sperry Marine Navigat 100	
Capstan fore Crane	1x DMC electrically driven, 5 ton at 15 m/min Heila HLRM 65-4S 4.65 ton at 12,72 m with 5	Satellite compass	JRC JLR-21	
Crane	ton winch	Autopilot	Sperry Marine Navipilot 4000+ BASIC	
Towing hook aft	Mampaey SWL 100 ton	Echo sounder	Skipper ESN100	
Stern roller	SWL 100 ton, length approx. 3.7 m, diameter 1.2	Speed log	Consilium SAL R1a, WT	
Stern roller	m (incl. removable bulwark)	Intercom	Phontech CIS 3101	
Flush gob eye	Centreline recessed connector on aft deck with	CCTV	19" monitor with 14 camera's covering ER, accommodation, deck and winch	
r lusir gob eye	steel cover plate		rooms	
Ø Towing pins and chain	1 Ø 350 mm forks (SWL 300 ton), 2 Ø 350 mm	VHF (with DSC)	2x Cobham (Thrane & Thrane) Sailor 6222	
stopper	towing pins with flaps for vertical locking (SWL	Fire-Fighter radio (UHF) VHF hand-held	5x Cobham (Thrane & Thrane) Sailor 3965 Fire Fighter	
etoppe:	150 ton)		3x Cobham (Thrane & Thrane) Sailor SP3520	
Ø Tugger winches	2x DMC hydraulically driven, pull 10 ton up to 25	AIS SSB (MF/HF)	Cobham (Thrane & Thrane) 6280 Cobham (Thrane & Thrane) Sailor 6310 MF/HF 150 W	
2 rugger milenee	m/min, brake 20 ton, 50 m steel wire 26 mm	Navtex	JRC NCR-333	
Ø Deck covering	Wooden aft deck (Larch)	Inmarsat systems	2x Cobham (Thrane & Thrane) Sailor 6110 Mini-C	
Ø Anti slip	Anti-slip bars fore deck	Iridium terminal	1x Cobham (Thrane & Thrane) Sailor 4300 L-band	
Rescue boat + davit	1x SOLAS approved 4-meter inflatable rescue	EPIRB	1x ASNAP-M COSPAS-SARSAT GPS/GLONASS/Galileo class 1	
	boat with 25 hp outboard engine, operated by	SART	2x Dreif	
	rescue boat davit	Air-band communication	Hand-held Icom IC-A114	
Ø Buoy handling	Buoy chain clamp, partly removable bulwark (in	Sound reception system	Jotron Phontech 8300Mk2	
, .	combination with crane)	VDR	Consilium VDR F2	
Platform/ladder	Port side and starboard side fore deck against		tion 2x Morsvyazavtomatika "periscope" anemometer / weather station	
	the bulwark, boarding platform at centre line			
	bow, pilot ladders			
Fendering	D-fender at sides, cylindrical fender at transom			
-	corners, cylindrical and W-block bow fender with			
	water spray, tyre fenders bow, sides and aft	*Items marked with Ø are option	al equipment	
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STANDARD





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