

Z-TECH 5000 ASD TUG – PSA TAURUS

TUGBOATS



PRINCIPAL PARTICULARS

Year Built	: 2019
Builder	: Cheoy Lee Shipyards Ltd
Designer	: Robert Allan Ltd
Class	: Lloyd's Register of Shipping +100A1 Tug, + LMC, UMS,*IWS Singapore Coastal Services up to 30 nautical miles from shore
Flag	: Singapore
Call Sign	: 9V6442
IMO No.	: 9868417
Official No.	: 401854

DIMENSIONS

Length overall	: 27.40m
Breadth moulded	: 11.50m
Depth moulded	: 5.03m
Design Draft	: 4.60m (from baseline)
Navigational Draft	: 5.25m (max)
Gross Tonnage	: 333
Net Tonnage	: 99

MACHINERY & EQUIPMENT

Main Engines	: 2 x 1530kW Yanmar 6EY26W @ 750rpm
Generators	: 2 x 96ekW Perkins E70TAG1M @ 1500rpm
Propellers	: 2 x Schottel SRP360 FP
Air compressors	: 2 x Sperre HL/77A
Oily water separator	: Taiko Kikai USH-05
Sewage system	: Taiko Kikai SBH-15
CCTV system	: HIKVISION with 8 cameras
Ultrasonic anti-fouling	: Soni 8

ACCOMMODATION (FULLY AIR-CONDITIONED)

Officers	: 2 x1 berth
Crew	: 2 x 2 berths
Total	: 6 berths (MLC 2006 compliance)
Air-con system	: Cruisair (chilled water type)

PERFORMANCE DATA

Max speed	: 12.53 knots
Bollard pull (ahead)	
(astern)	: 52.85 tonnes
	: 50.68 tonnes

TANK CAPACITIES

Fuel oil	: 112.0m³
Freshwater	: 25.0m³
Ballast (FW) aft	: 61.0m³

TOWING AND DECK EQUIPMENT

Fwd Tow winch	: MacGregor MG-HTW1-*513U02276x2 hydraulic single split drum type
Drum capacity	: 220m x 76mm dia synthetic rope (working drum) 220m x 76mm dia synthetic rope (standby drum)
Brake Holding (up-coil)	: 125 tonnes (static, 1 st layer – working drum)
Brake Holding (down -coil)	: 30 tonnes (static, 1 st layer – standby drum)
Line pull (slack)	: 1.0T @ 0~40m/min
Anchor winch (aft)	: MacGregor MG-HNW1-*302U01424 Hydraulic single drum (up-coil)
Drum capacity	: 140m x 24mm dia SWR + 15.2m x 19mm dia chain
Deck crane	: Palfinger PK12000M SWL – 1.7.0t @ 6.1m outreach

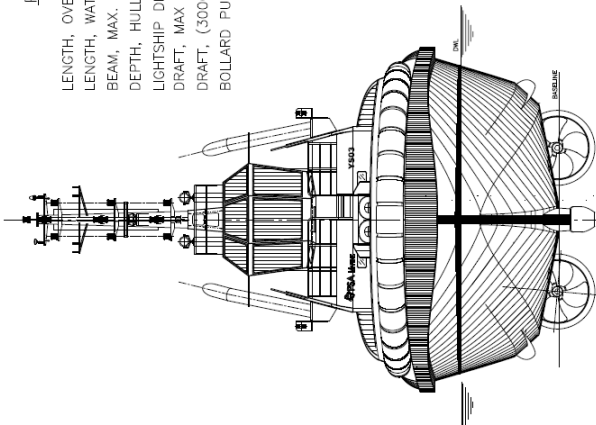
RADIO AND NAVIGATIONAL EQUIPMENT (GMDSS – A1)

Radar	: Furuno M-1945
VHF transceiver	: Furuno FM-8900S w/ DSC
GPS/ Plotter/Echo Sounder	: Furuno GP-1871F
Portable VHF GMDSS	: 2 x Cobham SP3540
Navtex receiver	: Furuno NX-700B
EPIRB	: McMurdo E8
SART	: McMurdo S5
Loudhailer system	: Furuno LH-3000
Wireless 4G LTE router	: TP-Link AC750
VHF (private channel)	: Motorola GP328
Magnetic compass	: Saura Keiki T-150II F
Satellite compass	: Furuno SC701
Battery-less Telephone system	: Jotron BTS 4000
AIS	: Furuno FA-170
GPS	: Furuno GP-39
BNWAS	: Furuno BR-500

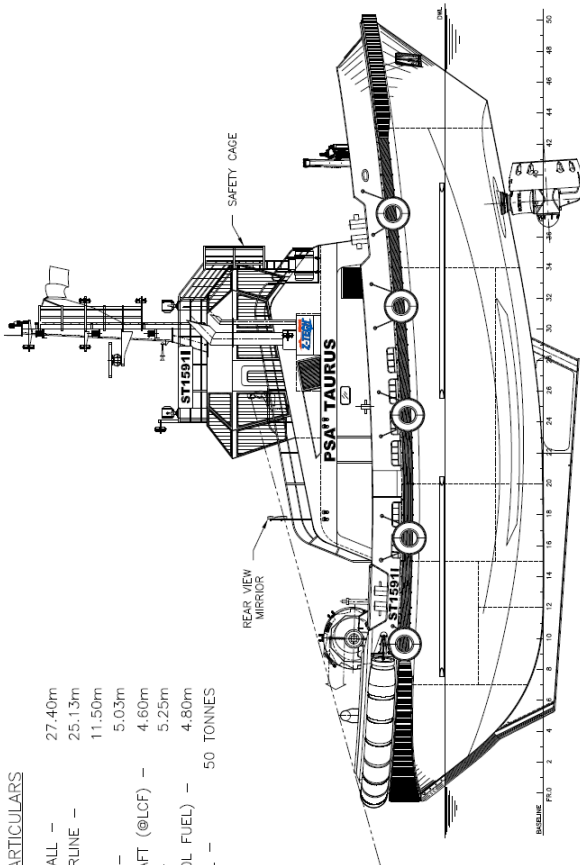
Note: The information and sketches in this document are given in good faith without any express, implied or statutory warranty or condition.

PARTICULARS

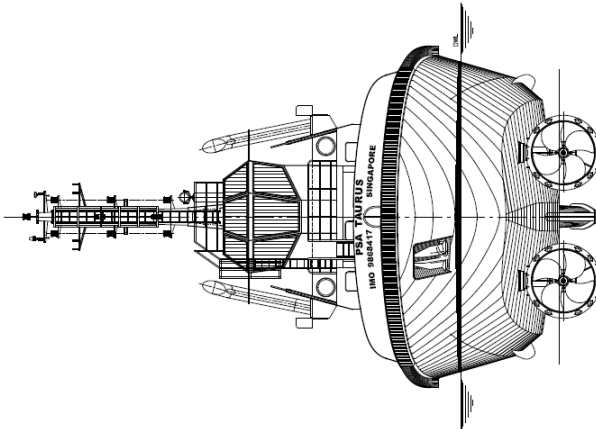
LENGTH, OVERALL – 27.40m
 LENGTH, WATERLINE – 25.13m
 BEAM, MAX. – 11.50m
 DEPTH, HULL – 5.03m
 LIGHTSHIP DRAFT (@LCF) – 4.60m
 DRAFT, MAX – 5.25m
 DRAFT, (30000L FUEL) – 4.80m
 BOLLARD PULL – 50 TONNES



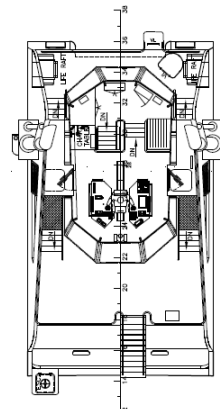
BOW VIEW



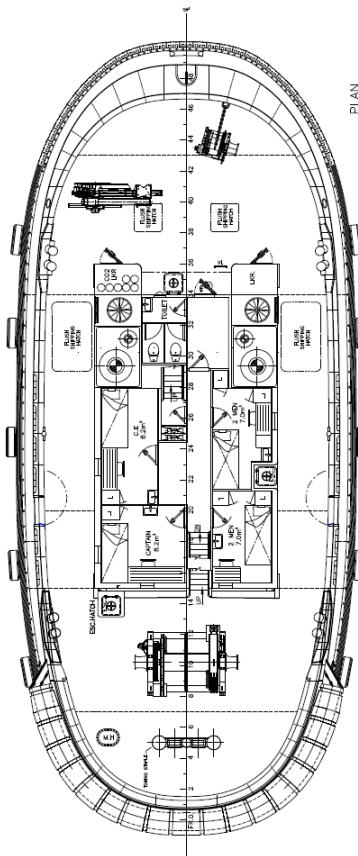
OUTBOARD PROFILE



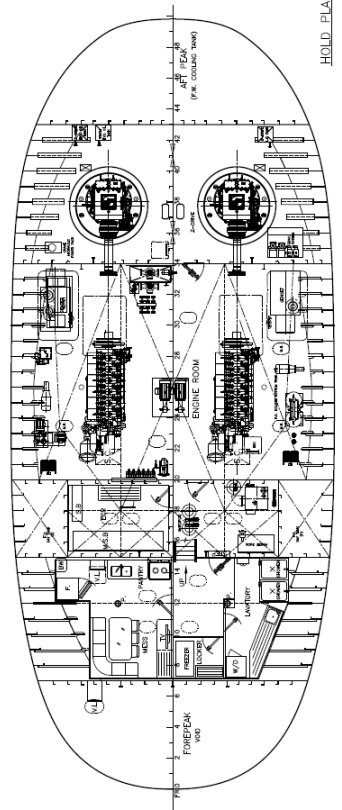
STERN VIEW



WHEELHOUSE PLAN



PLAN



HOLD PLAN

OWNER	PSA MARINE (PTE.) LTD.	SHIP NAME	PSA TAURUS
BUILDER	CHEOY LEE SHIPYARDS LTD	YARD No.	5172
CLASS	LR 4100A1 TUG+TFS, SINGAPORE COASTAL SERVICE UP TO 30 NAUTICAL MILES FROM SHORE, 4LMC, DMS	IMO No.	9868417
DELIVERY DATE	JANUARY, 2020	PORT OF REGISTRY	SINGAPORE
BUILDERS	 CHEOY LEE SHIPYARDS LTD. 8B-9 JONG WANG STREET, WEST LIAO KOK, KUN, HK. TEL: (852) 2411 8888 FAX: (852) 2411 8889  HIN LEE (ZUHAU) SHIPYARD CO., LTD. 1, DOUMEN GANG LUI, DOUMEN, ZUHAU, GUANGDONG, P.R.C. TEL: (86) 756 633663 E-MAIL: ship@hinlee.com		
	 ROBERT ALLAN LTD. NAVAL ARCHITECTS AND MARINE ENGINEERS 230-1639 WEST 2ND AVE. VANCOUVER, B.C.		
VESSEL	Z-TECH 5000 TUG		
CLIENT	PSA MARINE (PTE.) LTD.		
TITLE	GENERAL ARRANGEMENT		
DRAWN BY	CHECKED	APPROVED	SCALE
DATE	ZW LAO	DWC No.	YARD No.
10 OCT./18	1 OF 1	HL_5172_30000	5172
			REV.
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