

Z-TECH 6000 CL ASD HARBOUR TUG – PSA GEMINI



PRINCIPAL PARTICULARS

Year Built	: 2024
Builder	: Cheoy Lee Shipyard Ltd
Designer	: Robert Allan Ltd
Class	: ABS - ✱A1, Circle E, Towing Vessel, BP (60MT), ✱ABCU, UWILD, ✱AMS
Flag	: Singapore
Call Sign	: 9V9801
IMO No.	: 9998169
Official No.	: 403643

DIMENSIONS

Length Overall	: 30.00m
Breadth Moulded	: 12.00m
Depth Moulded	: 5.02m
Design Draft	: 3.70m (from baseline)
Navigational Draft	: 5.40m (max)
Gross Tonnage	: 397
Net Tonnage	: 119

MACHINERY (INSTALLED WITH CCTV SYSTEM)

Main Engines	: 2 X Niigata 6L28HX, 1654 kW/750 RPM
Generators	: 2 X Perkins E70TAG1M 96 kW
	: @ 415 V/3Ph/50Hz
Propellers	: 2 X Niigata ZP-31BCL
Air Compressors	: 2 x Sperre HL2/77A
Working Pressure	: 30 Bar

ACCOMMODATION (FULLY AIR-CONDITIONED)

Officers	: 2 x1 berth
Crew	: 4 x 2 berths
Total	: 10 berths (MLC 2006 compliance)
Sewage System	: Taiko Kikai SBH-15

FIREFIGHTING/ANTI-POLLUTION EQUIPMENT

FiFi Pump (PTO from Port M/E)	: Not Applicable
FiFi Monitor	: Not Applicable
Oily Water Separator	: Taiko Kikai USH-05
Oil Dispersant System	: Not Applicable

PERFORMANCE DATA

Speed @ 100%MCR	: 12.63 knots
Bollard Pull (Ahead)	: 64.61 tonnes
(Astern)	: 61.09 tonnes

TANK CAPACITIES

Fuel Oil	: 127.0 m³
Freshwater	: 33.0 m³
Dispersant	: Nil
Foam	: Nil

TOWING AND DECK EQUIPMENT

Tow Winch	: Ibercisa Hydraulic Harbour Towing Winch, hydraulic single split drum with Double Brakes and Clutches and one warping head type
Rope Capacity	: 220m + 220m x 76mm dia synthetics rope @ 8 layers
Recovery (L/M/H)	: 6.1 T@ 0 - 20.9 m/min 2.6 T@ 0 - 47.2 m/min
Brake Holding	: 150 tonnes
Anchor Windlass	: 20.5 mm Grade U2 chain pull with Steel Wire IWRC 1770 N/mm² x 140m length – 1.7 T @ 0 - 15 m/min
Brake Holding	: 18.0 tonnes
Deck Crane	: Palfinger PK12000M SWL – 1.7 T @ 6.2m outreach
Stern Hook	: Not Applicable

RADIO AND NAVIGATIONAL EQUIPMENT (GMDSS – A1+A2)

X-Band Radar	: Furuno 1945
GMDSS	: Entel HT649
MF/HF SSB Radiotelephone	: JRC JSS-2150
VHF Radiotelephone	: Furuno FM-8900S
Echo Sounder / Chart Plotter	: Furuno GP-1971F-E
Immarsat C	: Nil
Navtex Receiver	: Furuno NX-700A/B
EPIRB	: Jotron Tron 60AIS
SART	: McMurdo SA5
Intercom / Loud Hailer	: PHONTECH CIS3101
Magnetic Compass	: Saura T130VDA, 125mm binnacle
Satellite Compass	: Furuno SC-70
Auto Pilot	: Raytheon Anschutz PilotStar NX
AIS	: Furuno FA-170
GPS	: Furuno GP-39
BNWAS	: Furuno BR 500
Hand-held VHF	: 2 x Entel HT649

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GENERAL PARTICULARS:

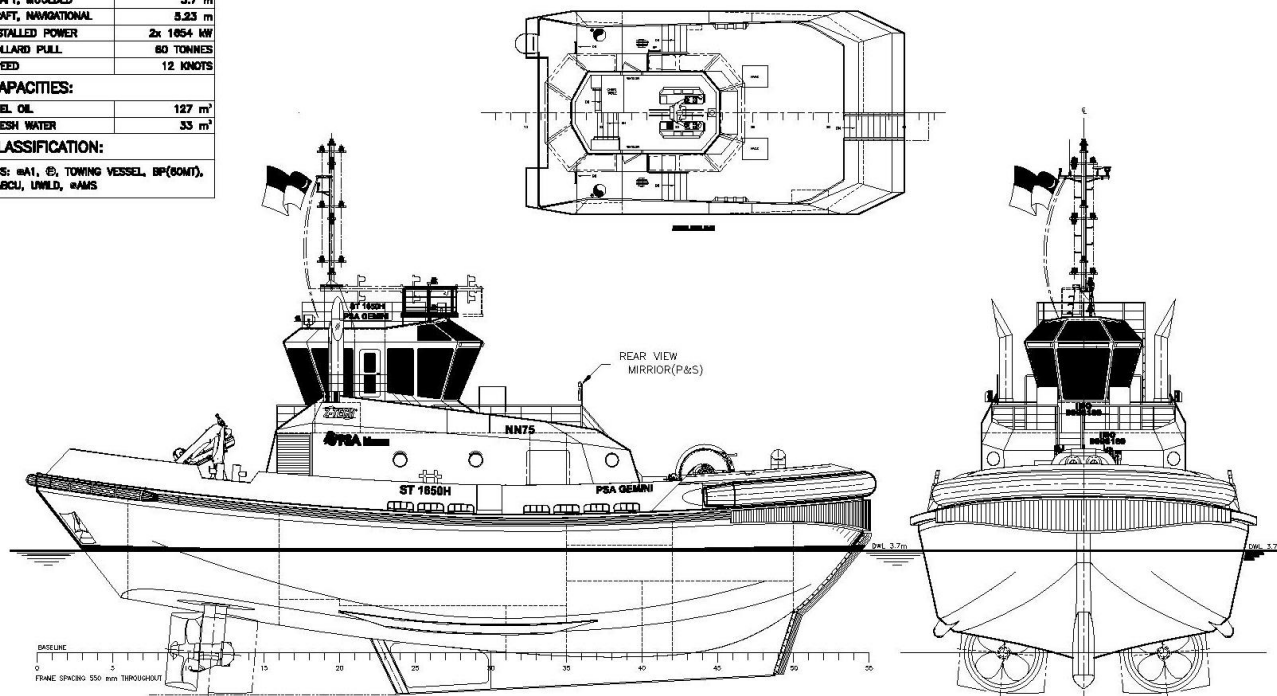
LENGTH OVERALL	30.0 m
BEAM, MOULDED	12.0 m
MOULDED DEPTH, LEAST	5.062 m
DRAFT, MOULDED	3.7 m
DRAFT, NAVIGATIONAL	5.23 m
INSTALLED POWER	2x 1054 kW
BOLLARD PULL	60 TONNES
SPEED	12 KNOTS

CAPACITIES:

FUEL OIL	127 m³
FRESH WATER	33 m³

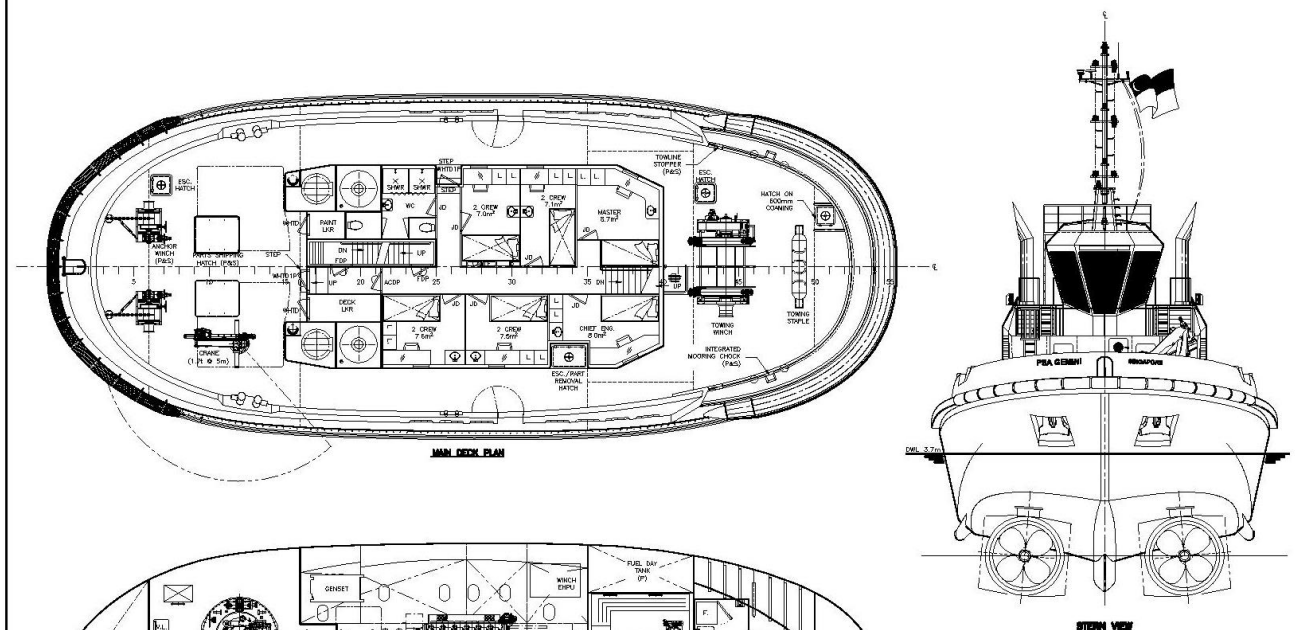
CLASSIFICATION:

ABS: mAT, @, TOWING VESSEL, BP(SOMT),
aABCU, UNLTD, aMAIS



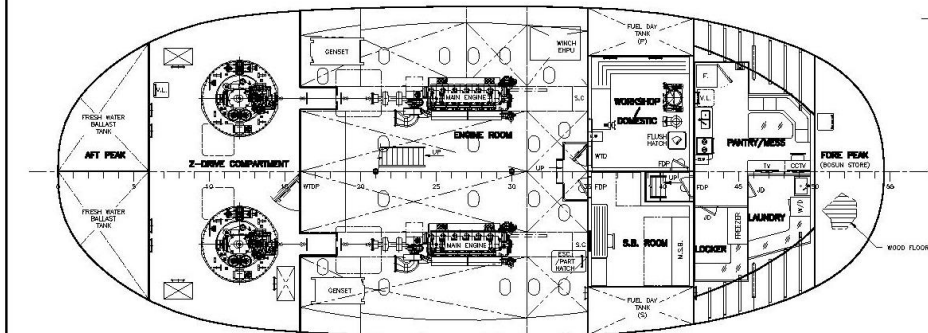
OUTBOARD PROFILE

BOW VIEW



MAIN DECK PLAN

STERN VIEW



HOLD PLAN

OWNER	PSA MARINE (PTE) LTD.	SHIP NAME	PSA GEMINI
BUILDER	HEAVY AS SHIPYARD CO. LTD.	VARD NO.	5270
CLASS	ABS	IMO NO.	9998169
DELIVERY	JUL 2024	PORT OF REGISTRY	SINGAPORE
CHEONG LEE SHIPYARDS LTD 08-01 180 940 STREET WEST, LK 08 LK, S24, SG. TEL: (65) 2357 4333 E-MAIL: cheonglee@cheonglee.com HIN LEE (SINGAPORE) SHIPYARD CO. LTD. 1 SINGAPORE CANTER LK, SINGAPORE, SINGAPORE, P.R.E. TEL: (65) 755 037943 E-MAIL: hinlee@hinlee.com			
ROBERT ALLAN LTD. NAVAL ARCHITECTS AND MARINE ENGINEERS 230-1130 West 2nd Avenue Vancouver, B.C. V6L 1A5, CANADA www.ral.ca email: ral@ral.ca phone: 604-728-9168			
VESSEL	Z-TECH 6000 TUGBOAT		
CLIENT	PSA Marine (Pte) Ltd.		
TITLE	GENERAL ARRANGEMENT		
DRAWN BY	CHECKED	APPROVED	SCALE
DATE	SHEET	DWG. NO.	REV.
27 JUN 2024	1 OF 1	HL_R270_30000	AF