

RAMPARTS 2500 CL ASD ESCORT TUG – PSA PHOENIX

TUGBOATS



PRINCIPAL PARTICULARS

Year Built	: 2022
Builder	: Cheoy Lee Shipyard Ltd
Designer	: Robert Allan Ltd
Class	: Lloyd's Register of Shipping ✱ 100A1 Tug, Escort Tug Protected Waters Service, Fire-Fighting Ship 1 (2400m ³ /h) with Water Spray ✱ LMC UMS, ✱ IWS
Flag	: Singapore
Call Sign	: 9V8851
IMO No.	: 9951616
Official No.	: 403191

DIMENSIONS

Length Overall	: 25.41m
Breadth Moulded	: 11.80m
Depth Moulded	: 4.79m
Design Draft	: 3.40m (from baseline)
Navigational Draft	: 5.42m (max)
Gross Tonnage	: 348
Net Tonnage	: 104

MACHINERY (INSTALLED WITH CCTV SYSTEM)

Main Engines	: 2 x 1999kW Caterpillar 3516C @ 1600rpm
Generators	: 2 x 118 kW Caterpillar C7.1
Harbour Generators	: 1 x 50kW Perkins PDM63HE
Propellers	: 2 x Schottel SRP 460 FP
Air Compressors	: 1 x Deno 2L-15/150

ACCOMMODATION (FULLY AIR-CONDITIONED)

Officers	: 2 x 1 berth
Crew	: 3 x 2 berths
Total	: 8 berths (MLC 2006 compliance)
Sewage System	: Taiko Kikai SBH

FIREFIGHTING/ANTI-POLLUTION EQUIPMENT

FiFi Pump (PTO from Port M/E)	: 1 x FFS SFP 300x400PC of cap 2850m ³ /hr @ 119m head c/w water curtain
FiFi Monitor	: 2 x FFS 1200/300 dual purpose foam/water of cap 1200m ³ /hr @ 10 bar
Oily Water Separator	: Taiko Kikai USH-05
Oil Dispersant System	: Tetra Fire, Off-Center Spray VeeJet nozzle type (P&S)

PERFORMANCE DATA

Speed @ 100%MCR	: 12.68 knots
Bollard Pull (Ahead)	: 72.70 tonnes
(Astern)	: 69.20 tonnes

TANK CAPACITIES

Fuel Oil	: 91.3m ³
Freshwater	: 12.3m ³
Dispersant	: 5.0m ³
Foam	: 5.0m ³

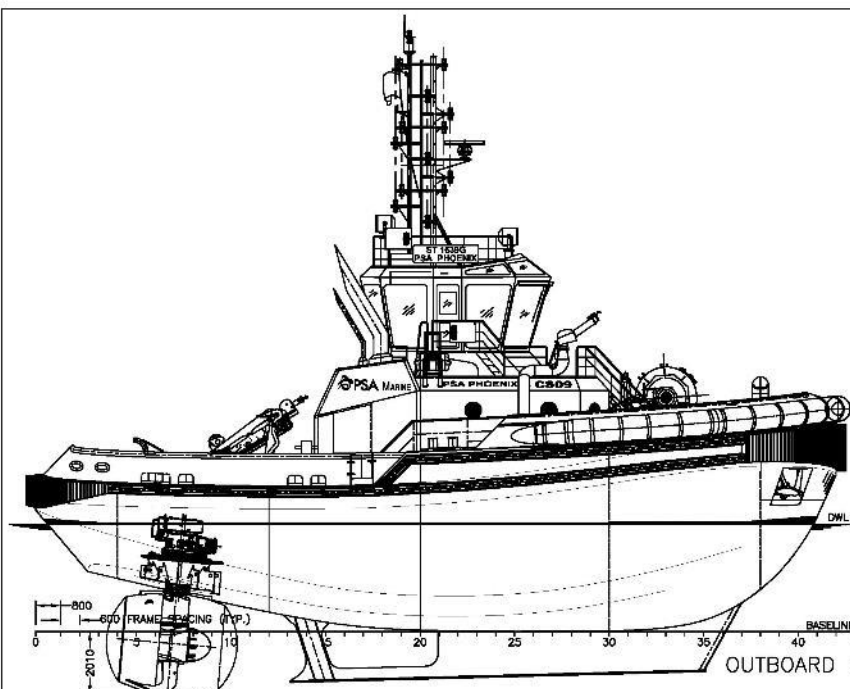
TOWING AND DECK EQUIPMENT

Tow Winch / Anchor Windlass (FWD)	: MacGregor Hydraulic Anchor Windlass / Escort Towing Winch, hydraulic single split drum, two chain wheels & one warping head type
Rope Capacity	: 220m + 220m x 60mm dia synthetics rope @ 9 layers
Recovery (L/M/H)	: 19.69 T@10 m/min 5.91 T@30 m/min
Brake Holding	: 197 tonnes
Anchor Windlass	: 20.5 mm Grade U2 chain pull – 1.8T @ 0~10 m/min
Brake Holding	: 11.13 tonnes
Deck Crane	: Palfinger PK12000M SWL – 1.44T @ 5.9m outreach
Stern Hook	: China make, Disc Type, 70 tonnes SWL

RADIO AND NAVIGATIONAL EQUIPMENT (GMDSS – A1+A2+A3)

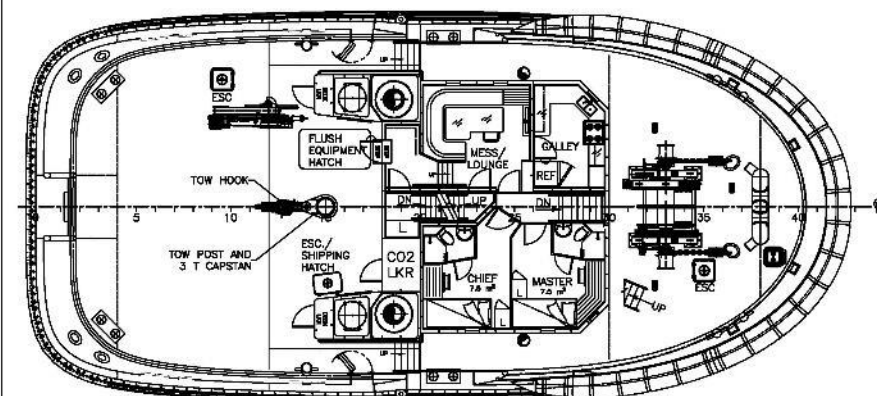
X-Band Radar	: Koden MDC-7912P
GMDSS MF/HF SSB Radiotelephone	: JSS-2150
VHF Radiotelephone	: Samyung SRT-6000A
Echo Sounder / Speed Log	: Furuno FCV-628
Inmarsat C	: Furuno Felcom-18
Navtex Receiver	: Furuno NX-700B
EPIRB	: McMurdo E8
SART	: McMurdo S5A
PA/Talkback System	: Furuno LH-5000
Magnetic Compass	: Saura T130VDA, 125mm binnacle
Satellite Compass	: Furuno SCX-21
Auto Pilot	: Raytheon Anschutz Pilot Star NX
AIS	: EmTrak A200
GPS	: Furuno GP-39
BNWAS	: Furuno BR 500
Hand-held VHF	: 2 x Entel HT649



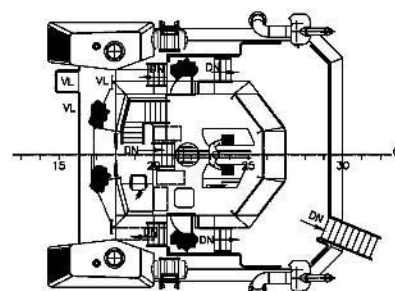


OUTBOARD PROFILE

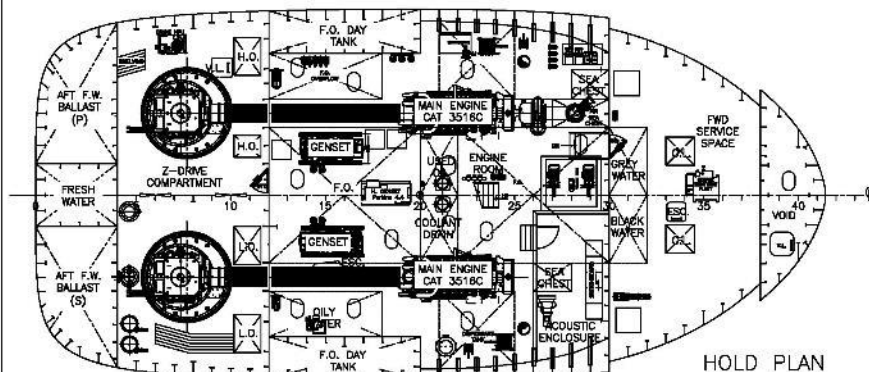
GENERAL PARTICULARS	
LENGTH, OVERALL	25.40 m
BEAM, MOULDED	11.80 m
DEPTH, MOULDED	4.60 m
DRAFT, DESIGN (ABOVE BL)	3.40 m
DRAFT, MAXIMUM	~5.42 m
INSTALLED POWER	2 x 1979 KW
BOLLARD PULL, AHEAD	70 TONNES
GT	348
COMPLEMENT	8
FUEL	91 m ³
POTABLE WATER	11 m ³
CLASS NOTATION	LR #100A1 Escort Tug Protected Waters Service, Fire Fighting Ship 1 (2400 m ³ /hr) with Water spray, *WS #LMC, UWS



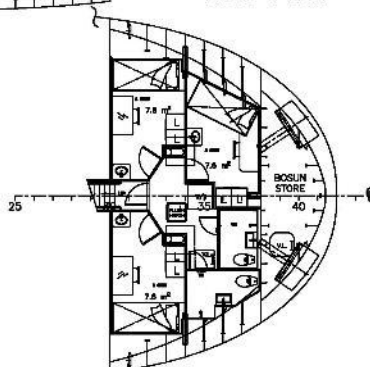
MAIN DECK PLAN



BRIDGE DECK



HOLD PLAN



LOWER ACCOMMODATIONS

OWNER	PSA MARINE (PTE.) LTD.	SHIP NAME	PSA PHOENIX
BUILDER	CHEOY LEE SHIPYARDS LTD	YARD No.	5241
CLASS	LLOYD'S REGISTER	IMO No.	9051618
DELIVERY DATE	APRIL 2023	PORT OF REGISTRY	SINGAPORE
BUILDERS	 CHEOY LEE SHIPYARDS LTD 88-91 HING WAH STREET WEST, LAI CHI KOK, KLN, HK. TEL: (852) 2307 8333 E-MAIL: ship@cheoylee.com  HIN LEE (ZHUHAI) SHIPYARD CO., LTD. 1 DOUMEN GANG LU, DOUMEN, ZHUHAI, GUANGDONG, P.R.C. TEL: (86) 756 6333663 E-MAIL: ship@hinlee.com		
VESSEL	 ROBERT ALLAN LTD. NAVAL ARCHITECTS AND MARINE ENGINEERS 230-1839 WEST 2nd AVE. VANCOUVER, B.C.		
CLIENT	PSA MARINE (PTE.) LTD.		
TITLE	GENERAL ARRANGEMENT		
DRAWN BY	XCS	CHECKED	APPROVED
DATE	13 MAR, 23	SHEET	1 OF 1
		DWG. No.	HL_5241_30000
		SCALE	A3-1:150
		YARD No.	5241
		REV.	AS FITTED