



PRINCIPAL PARTICULARS

Year Built	: 2017
Builder	: Cheoy Lee Shipyard Ltd
Designer	: Robert Allan Ltd
Class	: Lloyd's Register of Shipping ✕100A1 Tug, Fire-Fighting Ship 1 (2400m ³ /h) with Water Spray, *IWS, ✕LMC, UMS
Flag	: Singapore
Call Sign	: 9V7732
IMO No.	: 9813709
Official No.	: 402666

DIMENSIONS

Length Overall	: 32.00m
Breadth Moulded	: 12.40m
Depth Moulded	: 5.40m
Design Draft	: 3.72m (from baseline)
Gross Tonnage	: 493
Net Tonnage	: 147

MACHINERY (INSTALLED WITH CCTV SYSTEM)

Main Engines	: 2 x Niigata 6L28HX 1838Kw @ 750 RPM
Generators	: 2 x CAT C7.1 118ekW 400v, 3-Ph, 50Hz
Propellers	: Niigata ZP-41 High grade Nozzle With Propeller Boss Cap Fin
Air Compressors	: 1 x Sperre HL2/77 A, 26m ³ 1hr@ 30 bar

ACCOMMODATION (FULLY AIR-CONDITIONED)

Officers	: 2 x 1 berth
Crew	: 4 x 2 berths
Total	: 10 berths (MLC 2006 compliance)
Sewage System	: IL Seung ISB-02 M-Bio

FIREFIGHTING/ANTI-POLLUTION EQUIPMENT

FiFi Pump (PTO from Port M/E)	: 1 x FFS SFP 300x400PC of cap 2850m ³ /hr @ 115m 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	: BOSS 2.2T-107, 15 PPM C/W BilgMon 488
Oil Dispersant System	: Tetra Fire, Off-Center Flat Spray VeeJet nozzle type (P&S)

PERFORMANCE DATA

Speed @ 100%MCR	: 12.85 knots
Bollard Pull (Ahead)	: 71.36 tonnes
(Astern)	: 65.49 tonnes

TANK CAPACITIES

Fuel Oil	: 251 m ³
Freshwater	: 48.0 m ³
Dispersant	: 6.9m ³
Foam	: 6.9m ³

TOWING AND DECK EQUIPMENT

Tow Winch / Anchor Windlass (FWD)	: MacGregor Hydraulic Anchor Windlass / Towing Winch, hydraulic single split drum, two chain wheels & one warping head type
Rope Capacity	: 120m + 120m x 88mm dia HMPE rope @ 5 layers
Recovery (L/M/H)	: 10T@ 0~10 m/min 2T@0~35 m/min
Brake Holding	: 175 tonnes
Anchor Windlass	: 22 mm Grade U2 chain pull – 2.1T @ 0~10 m/min
Brake Holding	: 12.9 tonnes
Tow Winch (AFT)	: 600M 52mm Dia, SWR@10 Layers with 75mm Free Flange
Rate Pull (1 st Layer)	: 20T x 0~10 m/min
	: 5T x 0~30 m/min
Brake Holding	: 175T (Static,1 st layer)
Tugger Winch	: MacGregor 1681-02-001
Drum Capacity	: 200m x 24mm Dia SWR
Rated	: 5T x 15m/min
Deck Crane	: Palfinger PK11001M SWL – 1.44T @ 5.9m outreach

RADIO AND NAVIGATIONAL EQUIPMENT (GMDSS – A1+A2)

X-Band Radar	: Furuno FAR-1518
GMDSS MF/HF SSB Radiotelephone	: Furuno FS-1575 c/w DSC and NBDP
VHF Radiotelephone	: 2 x Furuno FM-8900S w/ DSC
Echo Sounder / Speed Log	: Furuno FCV-628
Immarsat C	: Furuno Felcom-18
Navtex Receiver	: Furuno NX-7001
EPIRB	: McMurdo E8
SART	: McMurdo S5
PA/Talkback System	: Furuno LH-3000
Magnetic Compass	: Saura T130VDA, 125mm binnacle
Satellite Compass	: Furuno SC-50
Auto Pilot	: Raytheon NP50
AIS	: Furuno FA-170
GPS	: Furuno GP-39
BNWAS	: Furuno BR 500
Hand-held VHF	: 2 x Entel HT649

