



## PRINCIPAL PARTICULARS

Year Built	: 2018
Builder	: PaxOcean Engineering Zhuhai Co., Ltd
Designer	: Robert Allan Ltd
Class	: Lloyd's Register of Shipping ✳ 100A1 Tug, Escort Tug, Fire Fighting Ship 1with Water Spray ✳ LMC UMS, *IWS for unrestricted voyages
Flag	: Singapore
Call Sign	: 9V5834
IMO No.	: 9830484
Official No.	: 401429

## DIMENSIONS

Length overall	: 32.00m
Breath moulded	: 12.00m
Depth moulded	: 5.42m
Design Draft	: 4.20m (from baseline)
Navigational Draft	: 5.53m (max)
Gross Tonnage	: 496
Net Tonnage	: 148

## MACHINERY (INSTALLED WITH CCTV SYSTEM)

Main Engines	: 2 x 2525kW Caterpillar 3516C(HD) @ 1800rpm
Generators	: 2 x 265kW Cummins QSM11D(M) @ 1500rpm
Propellers	: 2 x Schottel SRP 510 FP
Air compressors	: 2 x Sperre HL2/77A

## ACCOMMODATION (FULLY AIR-CONDITIONED)

Officers	: 2 x 1 berth
Crew	: 4 x 2 berths
Total	: 10 berths (MLC 2006 compliance)
Sewage system	: Taiko Kikai SBH-15
LNG protection system	: Detcon X40 with 6 gas detectors

## FIREFIGHTING/ANTI-POLLUTION EQUIPMENT

FiFi pump (PTO from stbd M/E)	: 1 x FFS SFP 300x400PC of cap 2800m <sup>3</sup> /hr @ 119m head c/w water curtain
FiFi monitor	: 2 x FFS 1200/300 dual purpose foam/water of cap 1200m <sup>3</sup> /hr @ 10 bar
Oily water separator	: Taiko Kikai USH-05
Oil dispersant system	: Tetra, V-jet nozzle type (P&S)

## PERFORMANCE DATA

Speed @ 100%MCR	: 13.69 knots
Bollard pull (ahead)	: 82.25 tonnes
(astern)	: 78.25 tonnes

## TANK CAPACITIES

Fuel oil	: 205.4m <sup>3</sup>
Freshwater	: 32.6m <sup>3</sup>
Dispersant	: 6.6m <sup>3</sup>
Foam	: 6.6m <sup>3</sup>

## TOWING AND DECK EQUIPMENT

Tow winch / anchor windlass (fwd)	: Rolls Royce heavy duty rendering/recovery escort winch ETWH 2000/800/AW24G2, hydraulic single split drum, two chain wheels & one warping head type
Rope capacity	: 220m + 150m x 88mm dia synthetics rope @ 8 layers
Recovery ( L/M/H)	: 80T@8m/min 33T@18m/min 9T@53m/min
Rendering (L/M/H)	: 117T@-18m/min 50T@-35m/min 15T@-84m/min
Brake Holding	: 200 tonnes
Anchor windlass	: 24mm Grade 2 chain pull - 2.5T @ 0~9m/min
Brake Holding	: 27.0 tonnes
Tow winch (aft)	: Rolls Royce TW 2000/100H single drum & 1 warping end
Drum capacity	: 720m x 52mm Dia SWR @ 11 layer
Rated pull (L/H)	: 14.0T @ 30m/min / 6.0T @ 63m/min
Deck crane	: Palfinger PK12000M SWL – 1.7T @ 6.1m outreach

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

Radar	: Furuno X-Band FAR1518
SSB transceiver	: Furuno FS -2575
VHF transceiver	: 2 x Furuno FM-8900S w/ DSC
Echo sounder	: Furuno FE 800
Immarsat C	: Furuno Felcom-18
Navtex receiver	: Furuno NX-700A
Chart Plotter	: Furuno GP-1870
EPIRB	: McMurdo E5
SART	: McMurdo S5
Anemometer	: Walker 2050 MK2
PA/Talkback System	: Vingtor SPA-V2 & ETB-10
Magnetic compass	: Saura Keiki MR-150A
Satellite compass	: Furuno SC-50
Auto pilot	: Anschutz Nautopilot - NP60
AIS	: Furuno FA-170
GPS	: Furuno GP-170
BNWAS	: Furuno BR 500
Speed Log	: Furuno DS-80
Hand-held VHF	: 2 x McMurdo R5

