



CERT NO.: 99-2-1008  
ISO 9001 : 2008



CERT NO.: 2003-0214  
ISO 14001 : 2004



CERT NO.: OHS-3061-0013  
BS OHSAS 18001 : 2007

## PRINCIPAL PARTICULARS

Year built	: 2014
Builder	: Guangdong Yuexin Ocean Engineering Co. Ltd
Designer	: Robert Allan Ltd
Class	: Lloyd's Register of Shipping + 100A1 Tug, + LMC, UMS, *IWS Fire Fighting Ship 1 Unrestricted voyages
Flag	: Singapore
Call sign	: 9V3108 9V3110
IMO no.	: 9727338 9727340
Official no.	: 399800 399801

## DIMENSIONS

Length overall	: 32.00 m
Breadth moulded	: 11.60 m
Depth moulded	: 5.36 m
Summer draft	: 4.30 m (@ base line)
Navigational draft	: 5.81 m (max)
Gross tonnage	: 473
Net tonnage	: 141

## MACHINERY

Main engines	: 2 x 1864kW Cat 3516C(HD) @ 1600rpm
Generators	: 2 x 122kW Cummins 6CT8.3-D(M) @ 1500rpm
Propellers	: 2 x Schottel SRP 3000FP
Air compressors	: 2 x Deno 2L-28

## ACCOMMODATION (FULLY AIR-CONDITIONED)

Officers	: 3 x 1 berth
Crew	: 3 x 2 berths
Total	: 9 berths (MLC 2006 compliance)
Sewage system	: Taiko Kikai SBH-15

## FIRE-FIGHTING / ANTI-POLLUTION EQUIPMENT

FiFi pump (PTO from stbd M/E)	: 1 x FFS SFP 300x400PC of cap 2842m <sup>3</sup> /hr @ 110m 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	: Boss 2.2T/107
Oil dispersant system	: Tetra, nozzle type without spray boom
Fuel oil purifier	: Alfa Laval P605

## PERFORMANCE DATA

Max speed	: 13.70 knots	13.20 knots
Bollard pull (ahead)	: 63.40 tonnes	64.90 tonnes
(astern)	: 57.60 tonnes	67.20 tonnes

## TANK CAPACITIES

Fuel oil	: 205.0 m <sup>3</sup>
Freshwater	: 33.0 m <sup>3</sup>
Dispersant	: 3.0 m <sup>3</sup>
Foam	: 5.2 m <sup>3</sup>

## TOWING AND DECK EQUIPMENT

Tow winch / anchor windlass (fwd)	: MacGregor MG-HAT / GDG-22-515U02288-01688 hydraulic single split drum type
Drum capacity	: 220m x 88mm dia HMPE rope @ 7 layers 160m x 88mm dia HMPE rope @ 7 layers
Brake holding	: 150 tonnes
Rated pull	: 5.0T @ 0~20m/min & 2.0T @ 0~40m/min (slack)
Tow winch (aft)	: MacGregor MG-HTW1-02-0215D07552 single drum
Drum capacity	: 750m x 52mm Dia SWR @ 13 layer
Rated pull	: 20.0T @ 0~10m/min & 5.0T @ 30m/min (slack)
Tugger winch	: 1 x 5T @ 15m/min (Drum cap : 200m x 24mm dia SWR)
Brake holding	: 7.5T (static)
Deck crane	: Hiab 121. Outreach lifting cap is 2.7t @ 5.2m

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

Radar	: Furuno FAR-2117
SSB transceiver	: Furuno FS-1575
VHF transceiver	: Furuno FM-8900S w/ DSC
Echo sounder	: Furuno FE-700
Immarsat C	: Furuno Felcom-18
Navtex receiver	: Furuno NX-700B
EPIRB	: McMurdo E5
SART	: McMurdo S5
Anemometer	: P&E A45B
Talkback system	: Vingtor CTB-100V
Magnetic compass	: Saura Keiki SR-165
Gyro-compass	: Anschutz Std 22 c/w repeater
Auto pilot	: Anschutz Nautopilot NP 60
Speed log	: Furuno DS-80
AIS	: Furuno FA-150
GPS	: Furuno GP-32
BNWAS	: Furuno BR-500
Hand-held VHF	: 3 x ICOM IC-GM1600

