

AHT & Multipurpose Tug

AHT DP1 4913

6962 BHP | 92 TBP



SPECIFICATIONS:

ANCHOR HANDLING & MULTIPURPOSE TUG, FIFI 1, DP-1

GENERAL:

Year Built: 2014
Flag: Singapore
Port of Registry: Singapore
Class: Bureau Veritas
Notation: I, Hull, Mach, Tug, Fire fighting ship 1,
Special Service – Anchor Handling – Water
Spray Unrestricted Navigation,
Inwatersurvey, Dynapos AM/AT

DIMENSIONS:

Length Overall: 49.60 m
Length BP: 42.10 m
Beam Moulded: 13.80 m
Depth Moulded: 6.00 m
Draft (Max): 5.20 m
Clear Deck Area: 250 m²
Deck Loading: 7 T/m²
GRT: 1,283 T
NRT: 384 T

CAPACITY:

Fuel Oil: 570 m³
Fresh Water: 300 m³

PERFORMANCE:

Bollard Pull: 92 T @ 100% MCR
Max. Speed: 13 knots
Endurance: 10,000 nm @ 12 knots

MACHINERY & PROPULSION:

Main Engines: 2 x Yanmar 8EY26W Diesel @ 3,481 MHP each
Total Power: 6,962 MHP
Gearbox: 2 x Reintjes LAF3455 reverse reduction gearboxes of 4.5235 : 1 ratio
Steering Gear: Electric hydraulic independent steering system;
2 x 7 tm torque, 45/45 degree coupled with autopilot system
Propulsion: 2 x CPP, Berg BCG760 solid bronze manganese
propellers @ 3,300 mm (Ø) each,
4 bladed Kaplan type in Kort Nozzle
Bow Thruster: 1 x 440 kW, hyd driven, Nagashima CPP, 7.0 T Thrust

POWER GENERATION:

Main Generators: 4 x Cummins KTA19-D(M)
Alternator: 4 x Stamford HCM534E1 rated 400kW/ 400V/ 3Ph/ 50Hz
Generator (Emergency / Harbour): 1 x Cummins NTA855-D(M)
Alternator: 1 x Stamford HCM434D1 rated 200kW/ 400V/ 3Ph/ 50Hz
Container Socket: 14 deck electric sockets fitted

DYNAMIC POSITIONING:

DP(1) System

OIL PURIFIER:

Fuel Oil: 1 x Alfa Laval P615
Lube Oil: 1 x Alfa Laval P615

CARGO DISCHARGE CAPACITY:

Fuel Oil: 1 x 70 m³/hr @ 50 m head (3" & 4" Quick Coupling)
Fresh Water: 1 x 70 m³/hr @ 50 m head (2", 3" & 4" Quick Coupling)

The Vessel specifications are reviewed and new brochures printed at regular intervals. Every endeavour has been made to provide accurate information on this brochure; however, the vessel owners do not accept any liability for errors, omissions or misprints published.



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DECK EQUIPMENT:

Anchor Windlass c/w:	9 MT @ 15 m/min, electric hydraulic anchor windlass
Towing Drum:	150 T Brake 3 T @ 60 m/min 12 T @ 15 m/min
Anchor Chain:	2 x 440 m x 40 mm (Ø), U2 steel stud link chain
Anchor (Bow):	2 x 1,575 kg, stockless bower anchors
Tugger Winch:	2 x 15 T @ 0 – 30 m/min, Hylead
Capstan:	2 x 5 T @ 0 – 15 m/min, Hylead
Deck Crane:	Hydraulic telescopic, SWL: 5 T @ 20 m reach

TOWING & ANCHOR HANDLING EQUIPMENT:

AH Winch:	250 T Brake, 150 T Pull Hydraulic double drum, waterfall type, Hylead 150 T @ 10 m/min, 1st layer 100 T @ 15 m/min, 1st layer 50 T @ 25 m/min, 1st layer 25 T @ 49 m/min, 1st layer
Drum Capacity:	1,200 m x 60 mm (Ø)
Towing Winch:	250 T Brake, 150 T Pull Hydraulic double drum, waterfall type, Hylead
Drum Capacity:	1,200 m x 60 mm (Ø)
Storage Winch:	2 x 10 T @ 0- 30 m/min for 1,200 m x 60 mm (Ø)
Shark Jaw:	2 x Karm Fork, SWL: 300 T
Tow Pin:	2 x Tow Pin, SWL: 200 T
Stern Roller:	5.5 m x 2.0 m (Ø), SWL: Approx. 200 T

ACCOMMODATION:

Berth / Cabin:	2 x 1 man 8 x 2 men 2 x 4 men
Total:	26 Men

MISCELLANEOUS:

Oily Water Separator:	1 x Ocean Clean 1.0EB, 1.0 m ³ /hr @ 2 kg/cm ²
Sewage Treatment:	1 x 30 persons, Jiangsu Yangzi WCBM-30
Water Maker:	1 x 12 T/day

NAVIGATION/ COMMUNICATION:

GMDSS (Area 3):	Furuno RC-1800T
VHF DSC:	2 x Furuno FM-8900S
MF/HF SSB (with DSC):	1 x Furuno FS-2575
EPIRB:	1 x McMurdo E5
SART:	2 x McMurdo S4
Navtex Receiver:	1 x Furuno NX-700B
Portable GMDSS VHF:	2 x McMurdo R5
Inmarsat C:	2 x Furuno Felcom-18
Fleet Broadband:	1 x Sailor FB-250
Radar (with ARPA):	1 x Furuno FR-2117
Radar:	1 x Furuno FR-8062
Gyrocompass:	2 x Anschutz STD22
Magnetic Compass:	1 x Lilley & Gillie MK-2000S
Auto Pilot:	1 x Navitron NT888G
Echo Sounder:	1 x Furuno FE-700
Speed Log:	1 x Furuno DS-80
Anemometer:	2 x RM Young 6206
Weather Fax:	1 x Furuno FAX-408
AIS:	1 x Furuno FA-150
Satellite TV Antenna:	1 x Intellian 19W

VESSEL SAFETY EQUIPMENT:

Life Raft:	4 x 30 Men, SOLAS Approved
Rescue Boat:	1 x 6 person, NPT45RB 21 KN

EXTERNAL FIRE FIGHTING:

FIFI Class (1)	
Pump:	2 x 1,500 m ³ /hr, 1,200 mlc @ 1,800 rpm
Monitor (water / foam):	2 x 1,200 m ³ /hr / 300 m ³ /hr @ 120 m height
Fire & GS Pump:	2 x 70 m ³ /hr @ 50 m head
Emergency Fire Pump:	1 x 25 m ³ /hr @ 30 m head
Dispersant:	2 x 12 m