

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

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

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 m ²
Deck Loading:	7 T/m ²
GRT:	1,283 T
NRT:	384 T

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

CAPACITY:

Fuel Oil:	570 m ³
Fresh Water:	300 m ³

PERFORMANCE:

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



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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