

## AHT & Multipurpose Tug

# AHT DP1 5313

**8200 BHP | 122 TBP**



### SPECIFICATIONS:

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

#### GENERAL:

Year Built:	2015
Flag:	Singapore
Port of Registry:	Singapore
Class:	Bureau Veritas
Notation:	I, HULL, MACH, Tug; Supply vessel; Fire fighting ship 1 – water spraying; Special Service – Anchor Handling – oil product FP>60°C, Unrestricted Navigation, INWATERSURVEY, DYNAPOS AM/AT

#### DIMENSIONS:

Length Overall:	53.80 m
Length B.P. :	46.30 m
Beam Moulded:	13.80 m
Depth Moulded:	6.00 m
Draft (Max):	5.20 m
Clear Deck Area:	24.5 m x 11.5 m
Deck Loading:	7 T/m <sup>2</sup>
GRT:	1,401 T
NRT:	420 T

#### CAPACITY:

Fuel Oil:	880 m <sup>3</sup>
Fresh Water:	300 m <sup>3</sup>

#### PERFORMANCE:

Bollard Pull:	122 T @ 100% MCR
Max. Speed:	13 knots
Endurance:	10,000 nm @ 12 knots

#### MACHINERY & PROPULSION:

Main Engines:	2 x Daihatsu 8DKM-28e @ 4,100 HP each
Total Power:	8,200 MHP
Gearbox:	2 x Reintjes LAF3455 reverse reduction gearboxes of 4.905 : 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, Kamome CPR-95B/115VCN propellers @ 3,600 mm (Ø) each, 4 bladed Kaplan type in Kort Nozzle
Bow Thruster:	1 x 507 kW, diesel driven, Kawasaki CPP, 8.5 T Thrust

#### POWER GENERATION:

Main Generators:	4 x Cummins KTA19-D(M)
Alternator:	4 x Stamford HCM534E1 rated 380kW/ 400V/ 3Ph/ 50Hz
Generator (Emergency / Harbour):	1 x Cummins NTA855-D(M)
Alternator:	1 x Stamford HCM434D1 rated 200kW/ 400V/ 3Ph/ 50Hz
Container Socket:	15 deck electric sockets fitted

#### DYNAMIC POSITIONING:

DP(1) System:	Kongsberg
Joystick System:	Kongsberg
DGPS:	1 x DPS110, 1 x DPS112

#### OIL PURIFIER:

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

#### CARGO DISCHARGE CAPACITY:

Fuel Oil:	1 x 100 m <sup>3</sup> /hr @ 70 m head (3" & 4" Quick Coupling)
Fresh Water:	1 x 100 m <sup>3</sup> /hr @ 70 m head (2", 3" & 4" Quick Coupling)



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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 @ 30 m/min, Hylead
Capstan:	2 x 5 T @ 15 m/min, Hylead
Deck Crane:	Hydraulic telescopic, SWL: 5 T @ 20 m reach

### TOWING & ANCHOR HANDLING EQUIPMENT:

AH Winch:	300 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 42 T @ 35 m/min, 1st layer 25 T @ 60 m/min, 1st layer
Drum Capacity:	1,200 m x 60 mm (Ø)
Towing Winch:	300 T Brake, 150 T Pull Hydraulic double drum, waterfall type, Hylead
Drum Capacity:	1,200 m x 60 mm (Ø)
Storage Winch:	2 x 5 T @ 15 m/min for 1,200 m x 60 mm (Ø)
Shark Jaw:	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 9 x 2 men 2 x 4 men
Total:	28 Men

### MISCELLANEOUS:

Oily Water Separator:	1 x Ocean Clean 1.0EB, 1.0 m <sup>3</sup> /hr @ 2 kg/cm <sup>2</sup>
Sewage Treatment:	1 x 40 persons, Jiangsu Yangzi WCBM-40
Water Maker:	1 x 12 T/day

### NAVIGATION/ COMMUNICATION:

GMDSS (Area 3):	Furuno RC-1800T
VHF DSC:	2 x Furuno FM-8800S
MF/HF SSB (with DSC):	1 x Furuno FS-2575
EPIRB:	1 x ACR RLB-32
SART:	2 x ACR Pathfinder
Navtex Receiver:	1 x Furuno NX-700B
Portable GMDSS VHF:	3 x ACR SR-102
Inmarsat C:	Furuno Felcom-18
Fleet Broadband:	1 x Furuno 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-2000
Auto Pilot:	1 x Anschutz NP60
Echo Sounder:	1 x Furuno FE-700
Speed Log:	1 x Furuno DS-80
Anemometer:	2 x RM Young 09106/06206
Weather Fax:	1 x Furuno FAX-408
AIS:	1 x Furuno FA-150
Satellite TV Antenna:	1 x Inmotion SV120

### 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 <sup>3</sup> /hr, 1,200 mlc @ 1,800 rpm
Monitor (water / foam):	2 x 1,200 m <sup>3</sup> /hr / 300 m <sup>3</sup> /hr @ 120 m height
Fire & GS Pump:	2 x 70 m <sup>3</sup> /hr @ 50 m head
Emergency Fire Pump:	1 x 50 m <sup>3</sup> /hr @ 46 m head
Dispersant:	2 x 12 m