



WORLD CARRIER SHIPMANAGEMENT

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AHTS DP-2 "DEFIANT"

Year 2006	Flag Liberia	Clear Deck Area (Space) 33.00 m x 13.80 m (455 m ²) from # -2 to # 53	Working Deck Area (Space) 25.00 m x 13.80 m (345 m ²) from # 5 to # 48
Builder Wuchang, China	Class Society DNV	Max Deck Cargo 850 t	Deck Loading (Strength) 5 t/m ² from #25 to fwd 10 t/m ² from #25 to aft
Class Notation ⚓ 1A1 Fire Fighter(I) Supply Vessel Tug DK(+) DPS(2) E0 HL(2.8) OILREC SF TMON		Deck Crane Marine Offshore Knuckleboom 1 x 5 t SWL @ 15 m (radius) @ 40 m/min – hydraulic	
IMO Number 9307308	Official Number 22310	Fresh Water 467.3 m ³ 1 x 150 m ³ /hr @ 9 bar	Ballast Water 68.0 m ³ (FW, Permanent) 1 x 150 m ³ /hr @ 9 bar
Call Sign 5LID8	MMSI 636022310	Fuel Oil (MGO) 839.0 m ³ 2 x 250 m ³ /hr @ 9 bar	Speed/ FO Consum. per day ECO (8 kn) / 22 m ³ Service (12 kn) / 28 m ³ FULL (15 kn) / 40 m ³
Length OA 69.60 m	Length BPP 61.20 m	Lube Oil Total: 70.0 m ³	
Breadth Moulded 17.00 m	Depth Moulded 7.31 m	Base Oil 119.8 m ³ 1 x 75 m ³ /hr @ 9 bar	Dry Bulk 229.7 m ³ 2 x 25 m ³ /hr @ 6.5 bar
DWT 2 298 t	Gross (Net) Tonnage 2 765 (897) t	Liquid Mud 562.9 m ³ SG - 2.5 t/ m ³ 2 x 75 m ³ /hr @ 21 bar	Brine 617.3 m ³ SG - 2.5 t/ m ³ 1 x 75 m ³ /hr @ 21 bar
Maximum Draft 6.20 m	Air Draft 33.45 m	Bollard Pull Continuous	140 t
Trial Speed 15.72 knots	Service Speed 10-13 knots		
Fire-Fighting Equipment FiFi Class 1 (2 400 m ³ /hr) @ 24 bar			

Main Engines

2 x Wartsila W9L32 (9 cylinders in Line),
Marine Diesel Engines 6120 bhp @ 750 rpm each, driving
1 440 kW Shaft Alternator and CPP (Control Pitch
Propeller) with Nozzle and independent Flap Rudder.

Total Power – 9 000 kW (12 240 bhp)

Drive Type

Either Engine to operate in Diesel Electric Mode and
driving both Propellers.

One Propeller via direct drive, other Propeller via the
combined Shaft Alternator/Electric Motor.

Bow Thrusters

2 x 610 kW – tunnel

Stern Thruster

1 x 610 kW – tunnel

Shaft Generators

2 x 1 440 kW

Diesel Generator

1 x 320 kW

Emergency Generator

1 x 250 kW

Rudders

2 x Independent Flap Type

Main Winch Type

– Bratwaag LP Hydraulic

Working Drum

1000 m on Drum

Drum Capacity

Present Wire

– 350 t pull / 450 t on brake

– 191 t pull @ 17.0 m/min

– 2 100 m x 76 mm (diam.)

– 1 200 m x 76 mm (diam.)

Towing Drum

1000 m on Drum

Drum Capacity

Present Wire

– 350 t pull / 450 t on brake

– 169 t pull @ 19.2 m/min

– 1 500 m x 76 mm (diam.)

– 1 500 m x 76 mm (diam.)

Anchor Handling Drum

1000 m / 86 mm (diam.)

1000 m / 76 mm (diam.)

Drum Capacity

Present Wire

– 310 t pull / 400 t on brake

– 228 t pull @ 14.3 m/min

– 235 t pull @ 13.8 m/min

– 3 500 m x 86 mm (diam.)

– 5 090 m x 76 mm (diam.)

– 350 m x 76 mm (diam.)

Spooling Reel Wire Capacity

Port Side Drum, 7.5 t SWL

Middle Drum, 7.5 t SWL

STBD Side Drum, 7.5 t SWL

– 2 000 m x 76 mm (diam.)

– 1 500 m x 76 mm (diam.)

– 2 000 m x 76 mm (diam.)

Rig Chain Lifters (Gypsy)

2 x 330 t pull @ 7.9 m/min

Lifters supplied:

2 x 76 mm + 1 x 70 mm (spare)

Rig Chain Locker

2 x 161.6 m³ (5 707.9 ft³)

Total 323.2 m³ (11 413.7 ft³)

Chain Roller

Adjustment from 58 mm to 102 mm chain

Tugger Winch

2 x 15 t SWL – hydraulic

Towing Pins

4 x 300 t SWL – retractable, hydraulic

Pop Up Pins

2 x 95 t SWL – retractable, hydraulic

Karm Forks

2 x 450 t SWL – retractable, hydraulic

Stern Roller

5.0 m x 2.4 m (diam.) x 500 t SWL

Towing (Gob) Eye

1 x 113 t SWL – hinged, recessed

Combined Windlass/Mooring Hydraulic Winch

Anchor Chain Lifters (Gypsy) 15 ton pull @ 12 m/min

Lowering: @40 m/min

Mooring Drum (1st Layer) 19 ton pull @ 10 m/min

5.6 ton pull @ 30 m/min

Lowering: @36 m/min

Mooring Warping End 15 ton pull @ 12 m/min

4.8 ton pull @ 37 m/min

Smit Bracket

1 x 175 t SWL

Capstan

2 x 10 t SWL – hydraulic

Rescue Boat

5.3 meters MOB Rigid Inflatable

Oil Recovery System

Portable Deck mounted Recovery Booms, Skimmers &
Pumps can be Provided. Under Deck Storage Tanks
(1 033 m³) and Recovered Oil Discharge Pumps are
Installed.

Dispersant System

Portable Deck mounted 8 meters hinged Dispenser Booms
with Permanent Under Deck Storage Tank (16.7 m³)

DP System (Class 2)

Kongsberg K-Pos DP-21

Kongsberg SJS-01

Reference System

1 x Fan Beam Laser

3 x DGPS

Gyro Compass

3 x Gyros

Radar

1 x S Band ARPA Type

1 x X Band ARPA Type

Navigating

1 x GPS/DGPS; 1 x GPS; 1 x DGPS

Autopilot, Echo Sounder, Doppler Log

GMDSS: A1 + A2 + A3

Inmarsat

Marine Inmarsat C

Navtex

1 x Receiver 518 kHz

Marine Radio

2 x VHF/DSC

3 x VHF

1 x UHF

Handheld Radio

3 x VHF/GMDSS

4 x UHF

4 x UHF for FiFi

Crew

22 Person

Hospital

2 Berths

Life saving appliances

for 24 Persons

Mess Room

for 12 persons

Accommodation

Single Berth Suite Cabin – 2

Single Berth Cabin – 10

Two Berth Cabins – 1

Four Berth Cabins – 2

The particulars are believed to be correct, but are not guaranteed.

AHTS Vessel's Tanks Full Capacities

(100 %, in Cubic Meters)

Tanks (Liquid, Dry, Cargo etc.)				Fuel Oil	Fresh Water	Base Oil	Multipurpose Tanks						Dry Bulk		
							Drill Water	Liquid Mud	Brine	ORO	Rig Chain	Water Ballast			
№	Location		Designation	Capacity	Specific Gravity										
					0.86	1.00	0.80	1.00	2.50	2.50	1.025		1.00	2.40	
01 C	Fore Peak	Center	Void Space	113.0											
13 C	DB	Center	Void Space	28.5											
11 C	Deep Wing	Port	Potable	104.5		104.5									
11 S	Deep Wing	STBD	Potable	105.7		105.7									
201 P	DB	Port	Void Space	31.1											
201 S	DB	STBD	Void Space	32.1											
201 C	DB	Center	Fuel Oil	64.9	64.9										
213 P	Settling	Port	Fuel Oil	33.3	33.3										
213 S	Settling	STBD	Fuel Oil	35.5	35.5										
221 P	Day Service	Port	Fuel Oil	11.9	11.9										
221 S	Day Service	STBD	Fuel Oil	11.9	11.9										
301 P	Wing	Port	Fuel Oil	38.3	38.3										
301 S	Wing	STBD	Fuel Oil	42.3	42.3										
321 P	Deep Wing	Port	Multi-cargo	161.6						161.6		161.6			
321 S	Deep Wing	STBD	Multi-cargo	161.6						161.6		161.6			
401 C	DB	Center	Fuel Oil	46.8	46.8										
401 P	DB Wing	Port	Fuel Oil	82.7	82.7										
401 S	DB Wing	STBD	Fuel Oil	127.5	127.5										
421 P	Deep Circular	Port	Multi-cargo	147.1					147.1	147.1	147.1				
421 S	Deep Circular	STBD	Multi-cargo	147.1					147.1	147.1	147.1				
501 C	DB	Center	Fuel Oil	62.4	62.4										
501 P	DB / Wing	Port	Fuel Oil	140.7	140.7					140.1					
501 S	DB / Wing	STBD	Fuel Oil	140.7	140.7					140.7					
521 P	Deep Circular	Port	Liquid Mud	134.4					134.4		134.4				
521 S	Deep Circular	STBD	Liquid Mud	134.4					134.4		134.4				
601 C	DB	Center	Permanent Ballast	68.0									68.0		
601 P	Deep Wing	Port	Void Space	83.5											
601 S	Deep Wing	STBD	Void Space	83.5											
604 C	DB	Center	Void Space	5.8											
611 P	Deep Wing	Port	Base Oil	59.9		59.9									
611 S	Deep Wing	STBD	Base Oil	59.9		59.9									
613 C	Slop Tank	Center	Slop	29.80											
711 C	Upper	Center	Void Space	186.3						186.3					
701 P	Upper Wing	Port	Potable	121.5		121.5									
701 S	Upper Wing	STBD	Potable	135.7		135.7									
801 C	Aft Peak DB	Center	Void Space	49.9											
801 P	Aft Peak Wing	Port	Void Space	29.6											
801 S	Aft Peak Wing	STBD	Void Space	29.6											
323 C	Dry Bulk	Center	Dry Bulk	57.4										57.4	
423 C	Dry Bulk	Center	Dry Bulk	57.4										57.4	
523 C	Dry Bulk	Center	Dry Bulk	57.4										57.4	
623 C	Dry Bulk	Center	Dry Bulk	57.4										57.4	
TOTALS @ % Full				m3	3312.6	839.0	467.3	119.8		562.9	617.3	1030.7	323.2	68.0	229.7
TOTALS @ % Full				tones		721.5	467.3	95.8		1407.3	1543.5	1056.5		68.0	551.3