

AL HARTHY TIDE



RICHARD TIDE as shown, AL HARTHY TIDE similar

NIIGATA 9500 ANCHOR HANDLING TOWING SUPPLY VESSEL

Vessel Characteristics

Length, Overall:	233.6 ft	71.2 m
Beam:	52.5 ft	16 m
Depth:	22.3 ft	6.8 m
Maximum Draft:	21.7 ft	6.6 m
Minimum Height:	80 ft	24.4 m
Freeboard:	3.3 ft	1 m
Displacement:	4,700 lt	4,770 mt
Deadweight:	2,510 lt	2,550 mt
Clear Deck Space:	120 x 42 ft	37 x 13 m
Clear Deck Area:	5,080 ft ²	470 m ²
Deck Strength AFT:	1,020 lb/ft ²	5 t/m ²
Class Notations:	ABS: +A1, +AMS, +DPS-2, (E), TOWING VESSEL, AH, FIFI-1, OSV	

Capacities

Deck Cargo:	980 lt	1,000 t
Fuel Oil:	316,000 gal	1,200 m ³
Potable Water:	43,900 gal	170 m ³
Fresh Water:	107,000 gal	400 m ³
Drill/Ballast Water:	175,000 gal	660 m ³
Bulk Tanks (4 tanks):	8,000 ft ³	230 m ³
Liquid Mud (2.6 SG*):	1,300 bbl	210 m ³
*Max Structural Specific Gravity		
Fire Fighting Foam:	2,210 gal	8.4 m ³

TIDEWATER

Find out more

tdw.com

Pg.2 Further Specifications
Pg.4 General Arrangement

Pg.5 Capacity Table
Pg.6 DP Capability Plot

NOTICE: The data contained herein is provided for convenience of reference to allow users to determine the suitability of the Company's equipment. The data may vary from the current condition of equipment which can only be determined by physical inspection. Company has exercised due diligence to insure that the data contained herein is reasonably accurate. However, Company does not warrant the accuracy or completeness of the data. In no event shall Company be liable for any damages whatsoever arising out of the use or inability to use the data contained herein.

AL HARTHY TIDE

Further specifications



Machinery

Main Engines (2):	WARTSILA W7L32		
Total HP:	9,390		
Propellers (2):	WARTSILA:4 Blade, 3.6m, CPP		
Gears (2):	WARTSILA SCV75-P48 4.87:1		
Kort Nozzles:	2		
Rudders (2):	Spade, Foil Type		
Primary Generators (3):	590 kw	450 v	60 hz
Driven by:	CAT 3412 TA		
Secondary Generators (2):	1,290 kw	450 v	60 hz
Driven by:	Shafts		
Emergency Generators (1):	95 kw	450 v	60 hz
Driven by:	CAT C4.4		
Bow Thruster (2):	NAKASHIMA TCT-165 TT		
Driven by:	700kW Electric Motors		
Total Thrust:	23.5 st	21.3 mt	
Stern Thruster (1):	NAKASHIMA TCT-150 TT		
Driven by:	575kW Electric Motor		
Total Thrust:	9.6 st	8.7 mt	

Performance*

Fuel Consumption Vs Speed		
Maximum:	40 m³/day (440 gph) @ 15 knots	
Cruising:	32.7 m³/day (360 gph) @ 14 knots	
Economical:	20.9 m³/day (230 gph) @ 12 knots	
Standby:	1.5 m³/day (17 gph) @ 0 knots	
Range @ 12 Knots:	14,800 nm	
Bollard Pull	140 st	120 mt
Transfer Rates		
Fuel Oil:	530 gpm @ 270 ft	120 m³/h @ 82 m
Fresh Water:	530 gpm @ 260 ft	120 m³/h @ 80 m
Drill/Ballast Water:	530 gpm @ 260 ft	120 m³/h @ 80 m
Bulk:	33.3 cfm @ 190 ft	56.5 m³/h @ 57 m
Liquid Mud:	330 gpm @ 250 ft	75 m³/h @ 75 m

Tow/Anchor Handling

Winch:	MacGregor Plimsoll
Model:	PC-AHTW/WF-200/300 (300T BRAKE)
Line Pull:	200 mt
Tow/AH Wire:	1000 m / 1000 m of 65 mm
Pennant Reels (1):	1000 m of 65 mm
Shark Jaw:	1 X 300 MT
Tow Pins:	1 X 300 MT
Chain Lockers (2):	1,290 m of 70mm chain
Chain Handler:	2 X 70MM CHAIN
Stern Roller:	PLIMSOLL 2M X 5M; 300 mt SWL

Nav/Comms Equipment

Radar(s):	2
Depth Sounder:	1
Cyro Compass:	3
Wind Seed Indicators:	2
Doppler Log:	1
Radio:	2 x VHF; 1 x SSB
Sat Com:	1XINMARSAT-C

Accommodations

No. of Berths:	35
Cabins:	7x1-man & 14x2-man
Certified to Carry:	35
Galley seating:	28
Hospital:	Yes

Deck Equipment

Anchors (2):	AC 14, 1575KG
Anchor Chain:	440 m of 40 mm chain per side
Windlass:	PC - HAMW/GDG-40-05/030
Crane (1):	5 t @ 12 m
Capstans (2):	10 t PC-HVC-10 (15M/MIN)
Tugger (2):	10 t PLIMSOLL PC-HUW 10DR-400 (24M/MIN)

*Approximate values assuming Ideal Conditions

AL HARTHY TIDE

Further specifications



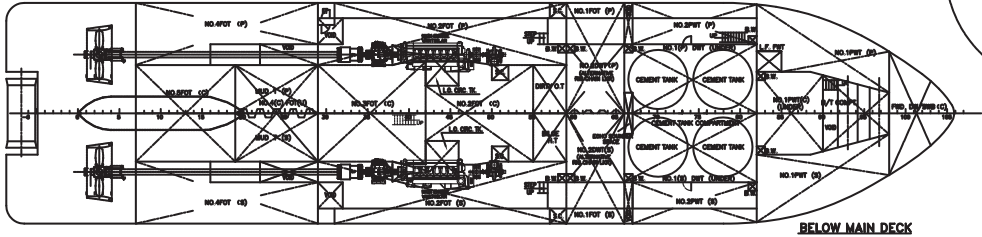
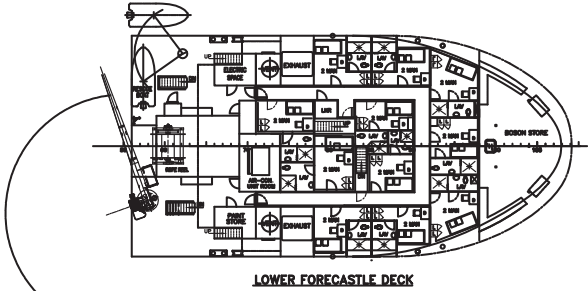
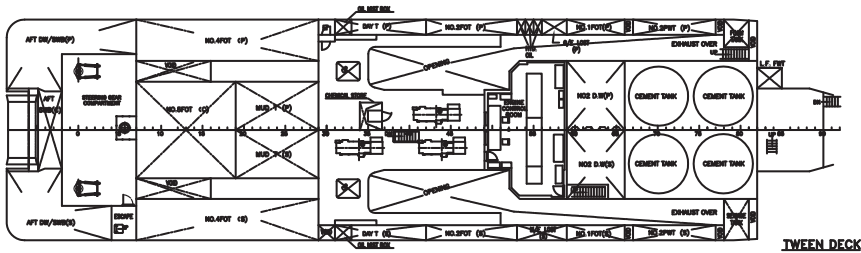
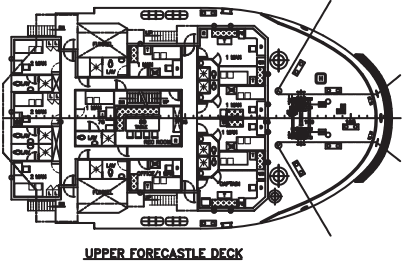
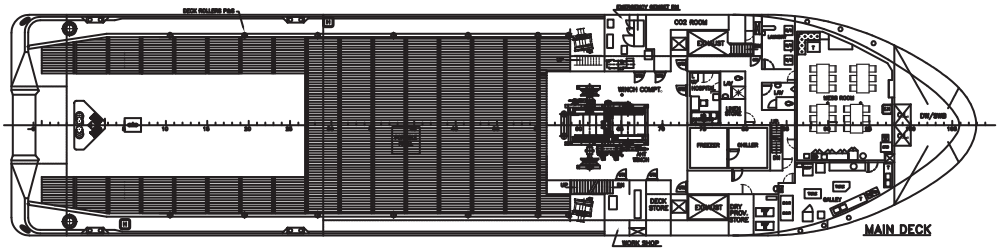
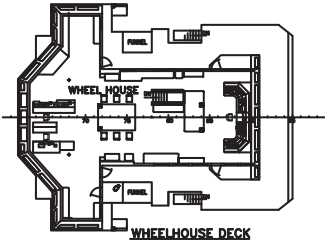
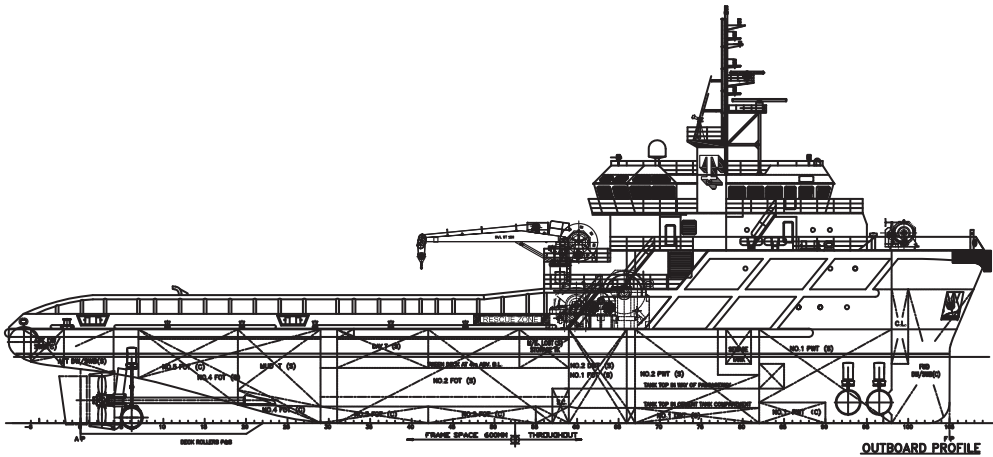
Registration

Flag: VANUATU	Home Port: PORT VILA	
Hull Number: 23	IMO N ^o : 9412921	
Year Built: 2009	Call Sign: YJQQ5	
Builder:	NIIGATA SHIPB & REPAIR	
Tonnage (ITC):	2465 GT	781 NT

Special Equipment

Fire Fighting:	FiFi-1
Dynamic Positioning:	DP-2
Ref. Systems:	2 x MRU; 2 x DGPS 1 x Laser-based
Water Maker:	5T/DAY
Rescue Zone:	Yes
Rescue Boat:	6-Man SOLAS MOB
Reefer Sockets:	4x 440V 20A; 2x 220V 20A
Misc:	MSD - 40 Persons

*Approximate values assuming Ideal Conditions



Capacity Table



*Capacities shown are for lead vessel. Actual capacities may vary slightly.

*Capacities shown in **RED** are excluded from the total volume.

*Capacities shown in **BLUE** are included in another Tank's Capacity.

*Capacities shown in **GREEN** are counted for multiple Tank Capacities.



KONGSBERG

DP Capability Plot
NIIGATA 0022

Case number : 1
Case description : ERN
Thrusters active : T1-T5
Rudders active :

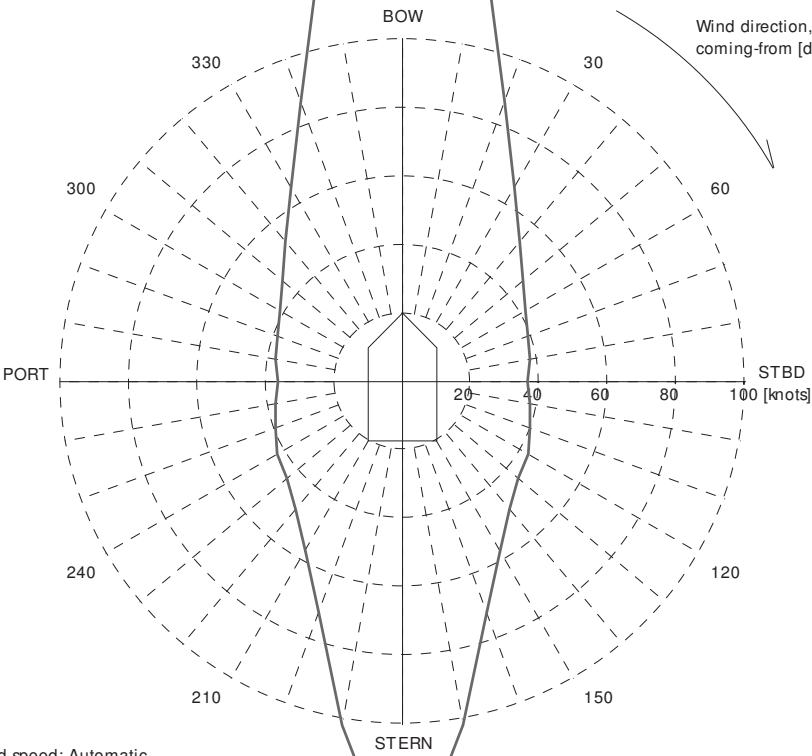
Input file reference : Foot_2782.scp
Last modified : 2008-04-28 10.47 (v. 2.6.1)
Length overall : 71.1 m
Length between perpendiculars : 63.0 m
Breadth : 16.0 m
Draught : 5.8 m
Displacement : 4650.0 t (Cb = 0.78)
Longitudinal radius of inertia : 15.8 m (= 0.25 * Lpp)
Pos. of origin ahead of Lpp/2 (Xo) : 0.0 m
Wind load coefficients : Calculated (Blendermann)
Current load coefficients : Calculated (Strip-theory)
Wave-drift load coefficients : Database (Scaled by Breadth/Length)

Tidal current direction offset : 0.0 deg
Wave direction offset : 0.0 deg
Wave spectrum type : JONSWAP (gamma = 3.30)
Wind spectrum type : NPD
Current - wave-drift interaction : OFF
Load dynamics allowance : 1.0 * STD of thrust demand
Additional surge force : 0.0 tf
Additional sway force : 0.0 tf
Additional yawing moment : 0.0 tf.m
Additional force direction : Fixed
Density of salt water : 1026.0 kg/m³
Density of air : 1.226 kg/m³

Power limitations : OFF
Thrust loss calculation : ON

Table with 8 columns: # Thruster, X [m], Y [m], F+ [tf], F- [tf], Max [%], Pe [kW], Rudder. It lists data for 5 thrusters (TUNNEL and PROP_AS) and the rudder.

Limiting 1 minute mean wind speed in knots at 10 m above sea level ERN (96, 96, 96). ERN are subject to DNV approval



Wind speed: Automatic
Significant wave height: DNV (ERN)
Mean zero up-crossing period: DNV (ERN)
Rotating tidal current: 1.46 knots
Rotating wind induced current: 0.000*Uwi knots