

## Azimuth Stern Drive Tug

### PRINCIPAL PARTICULARS

Year Built	2006
Place Built	Unithai Shipyard, Thailand
Design	WorldWise Marine BV
Flag	Panama
Length Overall	45.64 m
Length BP	42.38 m
Breadth Moulded	13.20 m
Depth Moulded	6.00 m
Draft (max)	5.30 m
Freeboard (SLL)	1.01 m
Class	BV
Notation	I x Hull x Mach, Tug, Fire Fighting Ship 1 - Water Spraying, Unrestricted Navigation, INWATERSURVEY
GRT/ NRT	818.00 T / 245.00 T
Deadweight	680.97 T
Bollard Pull	65.00 T

### DECK PARTICULARS

Clear Deck Area	192.00 m <sup>2</sup>
Deck Carrying Load	250.00 T
Deck Strength	5.00 T/m <sup>2</sup>

### PERFORMANCE

Maximum Speed	13 Knots @ 10 T/24 hrs
Economic Speed	9 Knots @ 8 T/24 hrs

### PROPULSION SYSTEM

Main Engines	2 x Niigata 6L28HX, 2497 BHP, 1838 kW @ 750 RPM, Total 4994 BHP
Auxiliary Engines	2 x Caterpillar 3408, 280 kW @ 1500 RPM
Emergency Generator	Caterpillar 3056, 84 kW
Air Compressor	2 x Tanabe LHC-33
Bow Thruster	Schottel Electric Driven
Propellers	2 x Niigata Azimuth Fixed Pitch Z-Peller ZP-41
Steering Gear System	2 x Azimuth Stern Drive

### TANK CAPACITIES

Fuel Oil	369.93 m <sup>3</sup>
Fresh Water	102.40 m <sup>3</sup>
Bilge	5.45 m <sup>3</sup>
Ballast Water	264.44 m <sup>3</sup>

### CARGO DISCHARGE CAPACITIES

Fuel Oil Pump	35 m <sup>3</sup> /hr @ 40 m head
Fresh Water Pump	45 m <sup>3</sup> /hr @ 50 m head
Drill Water Pump	45 m <sup>3</sup> /hr @ 50 m head
Bilge Pump	45 m <sup>3</sup> /hr @ 50 m head



### DECK EQUIPMENT

Anchors & Chain	Gypsy Pull 5 T x 12 m/min, 2 x 6 Shackles, Anchor Chain 28 mm (Dia)
Tugger Winch	150 m x 22 mm (Max 6 Layers), 5 T x 15 m/min, Brake Holding 7.5 T (Static)
Capstan	5 T x 12 m/min, Hydraulic Vertical Capstan
Anchor Windlass c/w Bow	1 x ME, Drum Capacity 300 m x 52 mm dia SWR (10 Layers), Pull 30 T x 10 m/min (Low Speed), 5 T x 30 m/min (High Speed), 45 m/min (Slack Speed) Brake Holding 155 T (Static 1st Layer)
Crane 1	SWL 5 T @ 12 m Radius (max SWL)
Crane 2	SWL 2.05 T, Provision Crane

### ANCHOR HANDLING & TOWING EQUIPMENT

Anchor Handling/ Towing Winch	ME 75THAHTW Double Drums in Waterfall
AH Drum Capacity	52 mm (L) x 200 m (Dia) SWR, Lower Drum
Tow Drum Capacity	52 mm (L) x 600 m (Dia) SWR, 10 Layers Upper Drum
Spare Reel Drum Capacity	52 mm (L) x 300 m (Dia) SWR, 10 Layers
Line Pull @ First Layer	75 T x 5 m/min, Low Speed
Brake Holding	155 T (Static)
Towing Pin	200 T
Shark Jaw	200 T
Stern Roller	125 T
Fairlead	Nil
Bow Winch	Single Drum, Double Gypsies & Warping Ends
Fwd Tow Winch	300 m x 52 mm SWR (10 Layers), Pull 30 T x 10 m/min (1st Layer Low Speed), Pull 5 T x 30 m/min (1st Layer High Speed), Brake Holding 155 T
Aft Tow Winch	600 m x 52 mm SWR (10 Layers), Pull 75 T x 5 m/min (1st Layer Low Speed), Pull 15 T x 30 m/min (1st Layer High Speed), Brake Holding 155 T

### ACCOMMODATION

Berths	18 berths (26 berths w/ conversion of seats)
Total Pax	38 (18 berths + 20 seats)

### EXTERNAL FIRE-FIGHTING EQUIPMENT

Fi-Fi Notation	FFS PI-100 for 0.3% Mix Ration/Up To 770 L/min
Fi-Fi Monitors	2 x 140 m Throw Length
Fi-Fi Pump	2 x 1200 m <sup>3</sup> /hr

### LIFE-SAVING EQUIPMENT

Life Rafts	4 x 20 Men, SOLAS Compliant
Rescue Boat c/w Davit	1 x 6 Men, 40 HP of Outboard Eng, 20 L

Particulars are believed to be correct but not guaranteed. Owners reserve the rights to amend the specifications without notifications.  
Particulars are entirely without warranty as to correctness and interested parties must inspect vessel's certificates, drawings or physical inspection of vessel.

