



**Vessel Characteristics**

Length, Overall:	167.3 ft	51 m
Beam:	49.2 ft	15 m
Depth:	21.3 ft	6.5 m
Maximum Draft:	23 ft	7 m
Minimum Height:	74.5 ft	22.7 m
Freeboard:	2.6 ft	0.8 m
Displacement:	2,650 lt	2,690 mt
Deadweight:	1,220 lt	1,240 mt
Clear Deck Space:	65 x 38 ft	20 x 12 m
Clear Deck Area:	2,510 ft <sup>2</sup>	230 m <sup>2</sup>
Deck Strength:	1,020 lb/ft <sup>2</sup>	5 t/m <sup>2</sup>

Class Notations:

ABS: +A1, (E), +AMS, TOWING VESSEL, OSV,FiFi-1, AH

# TIDEWATER<sup>®</sup>

## VRANA TIDE

100 t Bollard Pull  
Azimuthing Stern Drive Tug

# TIDEWATER<sup>®</sup> VRANA TIDE

## Capacities

Deck Cargo:	197 lt	200 t
Fuel Oil:	206,000 gal	780 m <sup>3</sup>
Potable Water:	42,800 gal	160 m <sup>3</sup>
Drill/Ballast Water:	84,400 gal	320 m <sup>3</sup>
Oil Dispersant:	2,110 gal	8 m <sup>3</sup>
Fire Fighting Foam:	2,110 gal	8 m <sup>3</sup>

## Machinery

Main Engines (2):	GE 16V228/7FDM16		
Total HP:	7,820		
Propellers (2):	CCP-Z Drive		
Z-Drives:	Yes		
Kort Nozzles:	2		
Primary Generators (3):	420 kw	440 v	60 hz
Driven by:	CAT C18		
Emergency Generators (1):	72 kw	440 v	60 hz
Driven by:	CAT C4.4		
Bow Thruster (1):	Tunnel		
Driven by:	Electric Motor (325kW)		
Total Thrust:	6.2 st	5.6 mt	

## Performance

(Approximate values assuming Ideal Conditions)			
<i>Fuel Consumption Vs Speed</i>			
Maximum:	16.9 m <sup>3</sup> /day (190 gph) @ 14 knots		
Cruising:	13.6 m <sup>3</sup> /day (150 gph) @ 11 knots		
Economical:	8 m <sup>3</sup> /day (88.1 gph) @ 8 knots		
Range @ 12 Knots:	9,000 nm		
Bollard Pull	140 st	120 mt	
<i>Transfer Rates</i>			
Fuel Oil:	440 gpm @ 170 ft	99.9 m <sup>3</sup> /h @ 51 m	
Drill/Ballast Water:	310 gpm @ 160 ft	70 m <sup>3</sup> /h @ 50 m	

## Deck Equip.

Anchors (2):	3174 lbs.		
Anchor Chain:	270 m of 38.1 mm chain per side		
Crane:	1.8 t @ 14 m		
Capstans (2):	5 t Electric-Hydraulic		
Tugger (2):	10 t MacGregor HUW10DL (15m/min)		

## Tow/Anchor Handling

Winch:	MacGregor Double Drum Waterfall		
Model:	AHTWWF-150/250 (250T Brake)		
Line Pull:	150 mt		
Tow Wire:	3,280 m of 2.5 mm		
Work Wire:	3,280 m of 2.5 mm		
Shark Jaw:	(2 sets) 300t SWL		
Tow Pins:	(2) 160t SWL		
Stern Roller:	16.27 ft. x 6.5 ft.; 350 mt SWL		
Additional Towing Equipment:	Bow Winch - Brake: 250t; Linepull: 75t; 350m of 64mm		

## Nav/Comms Equip.

Radar(s):	2		
Depth Sounder:	1		
Gyro Compass:	2		
Doppler Log:	1		
Radio:	2 x VHF; 1 x SSB		
Sat Com:	Inmarsat C		

## Accommodations

Nº of Berths:	20		
1-man cabins:	2		
2-man cabins:	3		
4-man cabins:	3		
Certified to Carry:	20		
Galley seating:	20		
Hospital:	Yes		

## Special Equip.

Firefighting:	FiFi-1		
Oil Dispersant Equipment:	2 x 5m Booms		
Recovered Oil Capacity:	125 m <sup>3</sup>		
Rescue Zone:	Yes		
Fast Rescue Craft:	JYB55KR 6-Man FRC		
Rescue Boat:	6-Man SOLAS Approved MOB		

## Registration

Flag:	VANUATU		
IMO Nº:	9556351		
Year Built:	2009		
Builder:	YUEXIN SHIPBUILDING		
Call Sign:	YJVN3		
Tonnage (ITC):	1370 GT	411 NT	

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.