



D'SOUZA TIDE as shown
BERGERON TIDE similar

Vessel Characteristics

Length, Overall:	194.3 ft	59.3 m
Beam:	49 ft	15 m
Depth:	20 ft	6.1 m
Maximum Draft:	16.3 ft	5 m
Minimum Height:	77.8 ft	23.7 m
Freeboard:	3.7 ft	1.1 m
Displacement:	2,840 lt	2,880 mt
Deadweight:	1,320 lt	1,340 mt
Clear Deck Space:	90 x 41 ft	27.4 x 12.4 m
Clear Deck Area:	3,660 ft ²	340 m ²
Deck Strength:	1,540 lb/ft ²	7.5 t/m ²

Class Notations:

ABS: +A1, (E), Towing Vessel, OSV, FFV-1, +AMS, +DPS-1

TIDEWATER[®]

BERGERON TIDE

Fujian SE 5,150 BHP
Anchor Handling Tug

TIDEWATER[®] BERGERON TIDE

Capacities

Deck Cargo:	490 lt	500 t
Fuel Oil:	134,000 gal	510 m ³
Potable Water:	22,600 gal	85.7 m ³
Fresh Water:	71,800 gal	270 m ³
Drill/Ballast Water:	105,000 gal	400 m ³
Bulk Tanks (4 tanks):	6,600 ft ³	190 m ³
Liquid Mud (21 lbs/gal):	2,390 bbl	380 m ³
Oil Dispersant:	3,520 gal	13.3 m ³
Fire Fighting Foam:	3,520 gal	13.3 m ³

Machinery

Main Engines (2):	CAT 3516B-HD		
Total HP:	5,150		
Propellers (2):	KH680 4 Blade CPP		
Kort Nozzles:	2		
Primary Generators (2):	350 kw	410 v	50 hz
Driven by:	CAT C18		
Secondary Generators (2):	800 kw	410 v	50 hz
Driven by:	Main Engines		
Emergency Generators (1):	65 kw	410 v	50 hz
Driven by:	CAT 2438/1500		
Bow Thruster (2):	Kawasaki KT-72B3 CPP		
Driven by:	515kw Electric Motor		
Total Thrust:	17.3 st	15.7 mt	

Performance

(Approximate values assuming Ideal Conditions)		
Fuel Consumption Vs Speed		
Maximum:	21 m³/day (230 gph) @ 13 knots	
Cruising:	16 m³/day (180 gph) @ 10 knots	
Economical:	12 m³/day (130 gph) @ 8 knots	
Standby:	2.2 m³/day (24.2 gph) @ 0 knots	
Range @ 10 Knots:	7,440 nm	
Bollard Pull	67.8 st	61.5 mt
Transfer Rates		
Fuel Oil:	660 gpm @ 250 ft	150 m³/h @ 75 m
Fresh Water:	550 gpm @ 250 ft	120 m³/h @ 75 m
Drill/Ballast Water:	440 gpm @ 250 ft	100 m³/h @ 75 m
Bulk:	28 cfm @ 190 ft	47.6 m³/h @ 57 m
Liquid Mud:	310 gpm @ 280 ft	70 m³/h @ 85 m

Tow/Anchor Handling

Winch:	Plimsoll (6m/min)	
Model:	Electro-Hydraulic w/200t Brake	
Line Pull:	150 mt	
Tow Wire:	1000 m of 56 mm	
Work Wire:	1000 m of 56 mm	
Pennant Reels (1):	1000 m of 56 mm	
Shark Jaw:	Plimsoll 200 MT	
Tow Pins:	Plimsoll 200 MT (1 set)	
Stern Roller:	4.4m x 1.6m; 200 mt SWL	

Deck Equip.

Anchors (2):	2878 lbs HHP STOCKLESS	
Anchor Chain:	220 m of 36 mm chain per side	
Crane:	3 t @ 9 m	
Capstans (2):	5 t Plimsoll (15m/min)	
Tugger (2):	10 t Plimsoll (15m/min)	

Nav/Comms Equip.

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

Accommodations

Nº of Berths:	42	
1-man cabins:	4	
2-man cabins:	3	
4-man cabins:	8	
Certified to Carry:	42	
Galley seating:	30	
Hospital:	Yes	

Special Equip.

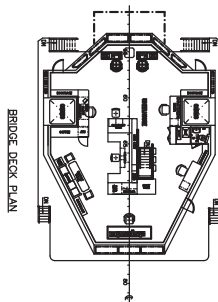
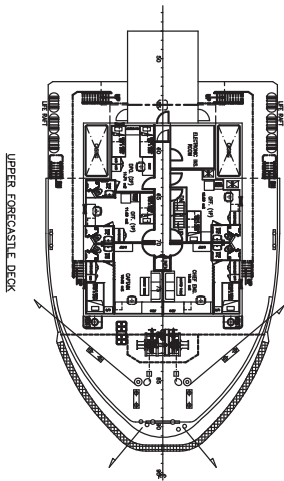
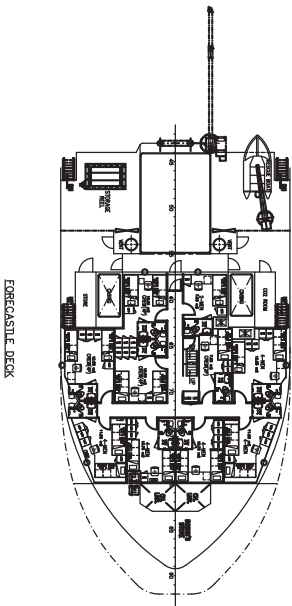
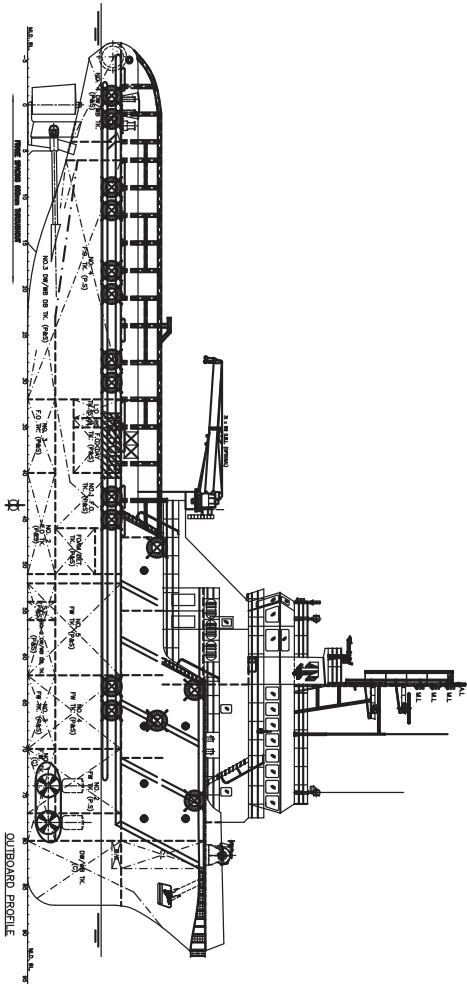
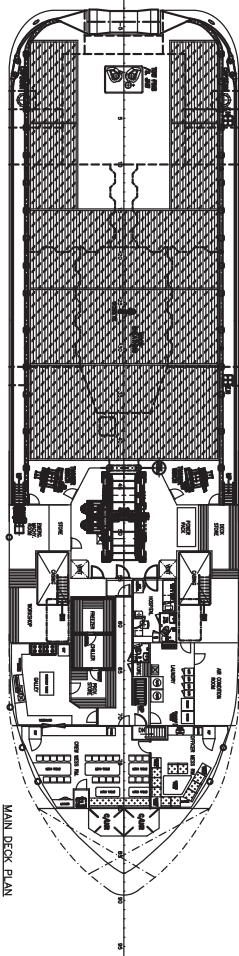
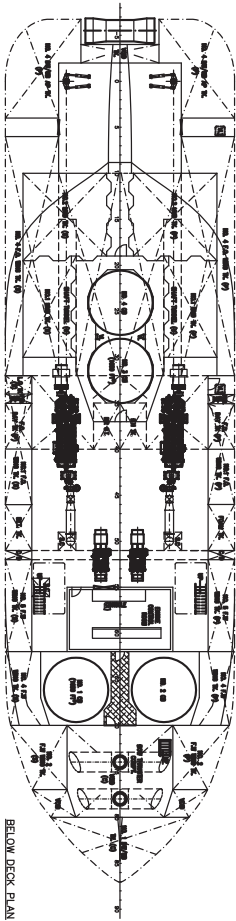
Firefighting:	FiFi-1	
Dynamic Positioning:	DP-1 CLASSED	
Ref. Systems:	1 x MRU; 2 x DGPS	
Water Maker:	5T/Day	
Mud Circulation System:	Yes	
Rescue Boat:	6 Man SOLAS Approved	

Registration

Flag:	VANUATU	
IMO Nº:	9555840	
Year Built:	2009	
Builder:	FUJIAN SOUTHEAST SHIPYARD	
Call Sign:	YJVV4	
Tonnage (ITC):	1678 GT	503 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.

General Arrangement (Current configuration may vary.)



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Capacity Table

Tank Table														
Tank	Contents	Volume m ³	Base Oil	Fuel Oil	Dry Bulk	DW/WB	Potable Water	Fresh Water	Brine	Liquid Mud	Methanol	Lube Oil	Foam	Oil Disp.
No 1 Tank (C)	DW/WB	137.5				137.5								
No 2 Tank DB (P)	DW/WB	58.8				58.8								
No 2 Tank DB (S)	DW/WB	56.6				56.6								
No 3 Tank DB (P)	DW/WB	40.4				40.4								
No 3 Tank DB (S)	DW/WB	40.4				40.4								
No 4 Tank (P)	DW/WB	31.4				31.4								
No 4 Tank (S)	DW/WB	31.4				31.4								
No 1 Tank (C)	FW	55.3						55.3						
No 2 Wing (P)	Ships FW	42.8					42.8							
No 2 Wing (S)	Ships FW	42.8					42.8							
No 3 Tank DB (P)	FW	18.7						18.7						
No 3 Tank DB (S)	FW	18.7						18.7						
No 4 Wing (P)	FW	40.8						40.8						
No 4 Wing (S)	FW	40.8						40.8						
No 5 Wing (P)	FW	47.8						47.8						
No 5 Wing (S)	FW	49.7						49.7						
Day Tank (P)	FO	15.9		15.9										
Day Tank (S)	FO	15.9		15.9										
No 1 Wing (P)	FO	33.8		33.8										
No 1 Wing (S)	FO	36.3		36.3										
No 2 DB Tk (P)	FO	66.5		66.5										
No 2 DB Tk (S)	FO	66.5		66.5										
No 3 DB Tk (P)	FO	33.0		33.0										
No 3 DB Tk (S)	FO	33.0		33.0										
No 4 Wing (P)	FO	119.6		119.6										
No 4 Wing (S)	FO	119.6		119.6										
Cem Tk 1	Dry Bulk	46.7			46.7									
Cem Tk 2	Dry Bulk	46.7			46.7									
Cem Tk 3	Dry Bulk	46.7			46.7									
Cem Tk 4	Dry Bulk	46.7			46.7									
No 1 Tank (P)	LM	81.4								81.4				
No 1 Tank (S)	LM	81.4								81.4				
No 2 Tank (P)	LM	108.7								108.7				
No 2 Tank (S)	LM	108.7								108.7				
Foam Tank (P)	Foam	13.3											13.3	
Detergent Tk (S)	Dispersant	13.3												13.3
Lube Oil (S)	LO	6.4										6.4		
Total Volume [m ³]			0.0	539.9	186.9	396.4	85.7	271.6	0.0	380.2	0.0	6.4	13.3	13.3
Spec Sheet Total Volume [m ³]			0.0	508.2	186.9	396.4	85.7	271.6	0.0	380.2	0.0	6.4	13.3	13.3

*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

FUJIAN DN59M-83

Case number : 1
Case description : All Thrusters
Thrusters active : T1-T3
Rudders active : R1-R2

Input file reference	: 59372_B.scf
Last modified	: 2011-05-30 12.43 (v. 2.8.0)
Length overall	: 59.3 m
Length between perpendiculars	: 52.2 m
Breadth	: 14.9 m
Draught	: 4.9 m
Displacement	: 2755.0 t (Cb = 0.70)
Longitudinal radius of inertia	: 13.1 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 (15 °C)
Power limitations	: OFF
Thrust loss calculation	: ON

#	Thruster	X [m]	Y [m]	F+ [tf]	F- [tf]	Max [%]	Pe [kW]	Rudder
1	TUNNEL	20.7	0.0	6.0	-6.0	100	390	
2	PROP_AS	-26.0	-3.3	33.9	-23.8	100	1920	BECKER
3	PROP_AS	-26.0	3.3	33.9	-23.8	100	1920	BECKER

