KIRKCONNELL TIDE

D'SOUZA TIDE as shown, KIRKCONNELL TIDE similar

FSES 5150 ANCHOR HANDLING TOWING SUPPLY VESSEL

Vessel Characteristics

Length, Overall:	194.6 ft	59.3 m
Beam:	49.2 ft	15 m
Depth:	20 ft	6.1 m
Maximum Draft:	16.4 ft	5 m
Minimum Height:	77.8 ft	23.7 m
Freeboard:	3.6 ft	1.1 m
Displacement:	2,840 lt	2,880 mt
Deadweight:	1,330 lt	1,350 mt
Clear Deck Space:	90 x 41 ft	27 x 12 m
Clear Deck Area:	3,660 ft^2	340 m^2
Deck Strength AFT:	1,540 lb/ft^2	7.5 t/m^2
Class Notations:	ABS: +A1, (E), Towing Vessel, OSV, FFV-1, +AMS, +DPS-1	

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 (2.5 SG*): *Max Structural Specific Gravity	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

TIDEWATER

Find out more **tdw.com**

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KIRKCONNELL TIDE

Further specifications

Machinery

Main Engines (2):			CAT 3516B-HD
Total HP:			5,150
Propellers (2):			KH680 4 Blade CPP
Gears (2):			Reintjes LAF 873L 7.526:1
Kort Nozzles:			2
Rudders (2):			High Performance Streamline
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:			515 kW Electric Motor
Total Thrust:		17.3 st	15.7 mt

Performance*

Fuel Consumption Vs Speed		
Maximum:		18 m^3/day (200 gph) @ 13.5 knots
Cruising:		12.7 m^3/day (140 gph) @ 10 knots
Economical:		10.4 m^3/day (110 gph) @ 8 knots
Standby:		2.2 m^3/day (24.2 gph) @ 0 knots
Range @ 10 Knots:		9,600 nm
Bollard Pull	73.4 st	66.6 mt
Transfer Rates		
Fuel Oil:	660 gpm @ 250 ft	150 m^3/h @ 75 m
Fresh Water:	550 gpm @ 250 ft	120 m^3/h @ 75 m
Drill/Ballast Water:	440 gpm @ 250 ft	100 m^3/h @ 75 m
Bulk:	28 cfm @ 190 ft	47.5 m^3/h @ 57 m
Liquid Mud:	310 gpm @ 280 ft	70 m^3/h @ 85 m

Tow/Anchor Handling

Winch:	Plimsoll (6m/min)
Model:	Electro-Hydraulic w/200tBrake
Line Pull:	150 mt
Tow/AH Wire:	1000 m / 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

Nav/Comms Equipment

Radar(s):	2
Depth Sounder:	1
Gyro Compass:	2
Wind Seeed Indicators:	2
Doppler Log:	1
Radio:	2 x VHF; 1 x SSB
Sat Com:	1 X INMARSAT-C

Accommodations

No. of Berths:	42
Cabins:	4x1-man, 3x2-man & 8x4-man
Certified to Carry:	42
Galley seating:	30
Hospital:	Yes

Deck Equipment

Anchors (2):	2877 lbs HHP Stockless
Anchor Chain:	220 m of 36 mm chain per side
Windlass:	Plimsoll (6.1T@10m/min)
Crane (1):	3 t @ 9.1 m
Capstans (2):	5 t Plimsoll (15m/min)
Tugger (2):	10 t PLIMSOLL (15M/MIN)

*Approximate values assuming Ideal Conditions

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KIRKCONNELL TIDE

Further specifications

Registration

Flag: VANUATU	**Home Port:** PORT VILA	
Hull Number: 52	**IMO N°:** 9582180	
Year Built: 2010	**Call Sign:** YJVV6	
Builder:	FUJIAN SOUTHEAST SHIPYARD	
Tonnage (ITC):	1678 GT	503 NT

Special Equipment

Fire Fighting:	FiFi-1
Dynamic Positioning:	DP-1
Ref. Systems:	1 x MRU; 2 x DGPS
Water Maker:	5T/DAY
Mud Circulation System:	Yes
Rescue Zone:	Yes
Rescue Boat:	6 Man SOLAS Approved
Reefer Sockets:	2 x 415V 63A; 2 x 220V 32A
Misc:	MSD - 50 PERSONS

*Approximate values assuming Ideal Conditions

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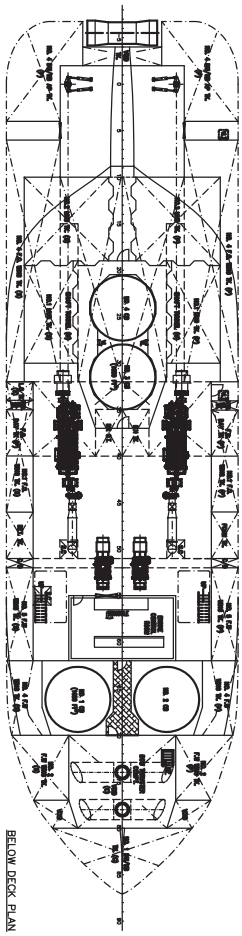
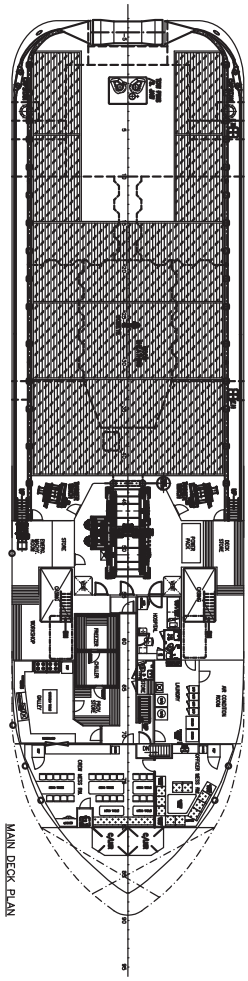
KIRKCONNELL TIDE

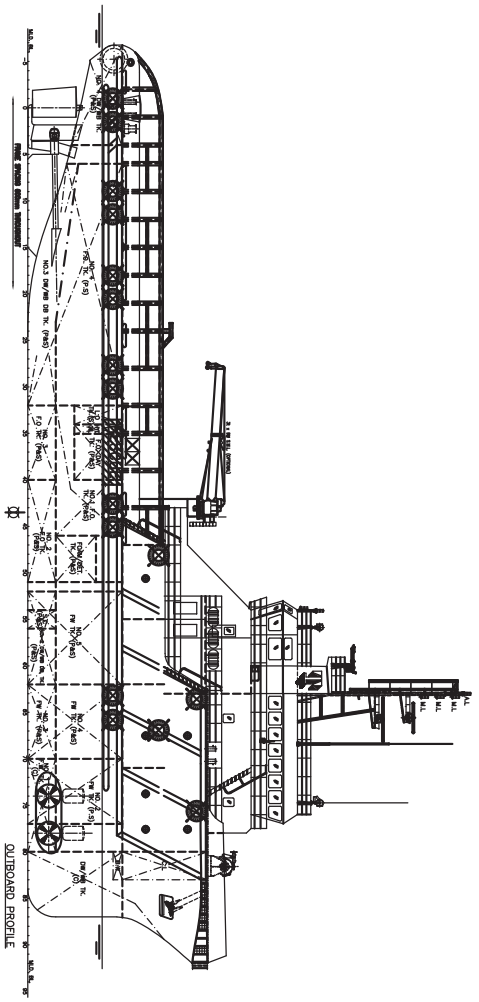
General Arrangement (Current configuration may vary.)



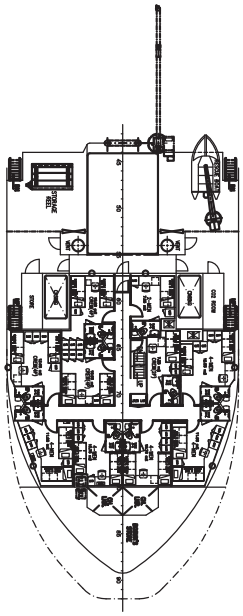
BELOW DECK PLAN



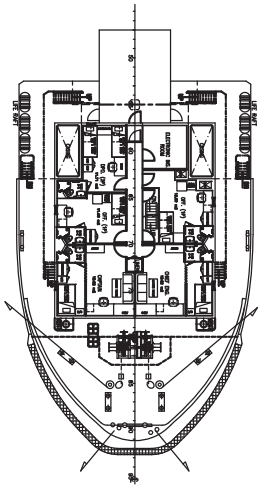
MAIN DECK PLAN



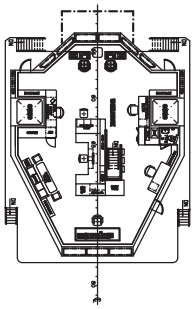
OUTBOARD PROFILE



FORECASTLE DECK



UPPER FORECASTLE DECK



BRIDGE DECK PLAN

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KIRKCONNELL TIDE

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.**

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KONGSBERG

DP Capability Plot

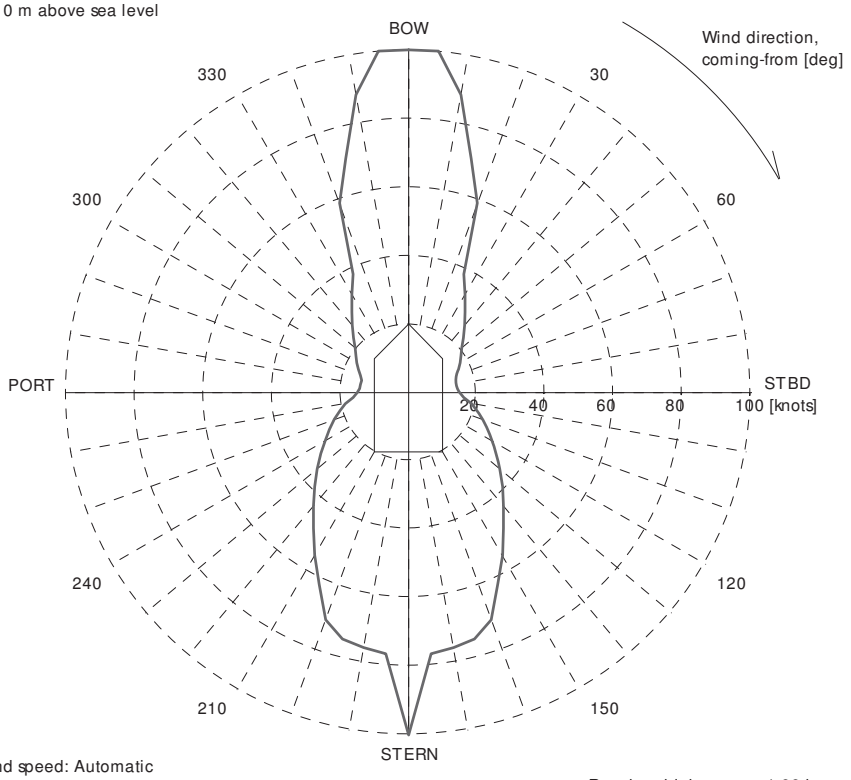
FUJIAN DN59M-83

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

Input file reference	:	59372_B.scp
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

VARIABLE WIND AND WAVES
Limiting 1 minute mean wind speed in knots
at 10 m above sea level



Wind speed: Automatic
Significant wave height: IMCA (North Sea)
Mean zero up-crossing period: IMCA (North Sea)

Rotating tidal current: 1.00 knots
Rotating wind induced current: 0.000*Uwi knots

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