DP2 PLATFORM SUPPLY VESSEL

Vessel Characteristics

Length, Overall:	303.5 ft	92.5 m
Beam:	61.7 ft	18.8 m
Depth:	26.3 ft	8 m
Maximum Draft:	21.3 ft	6.5 m
Light Draft:	8.2 ft	2.5 m
Minimum Height:	90.6 ft	27.6 m
Freeboard:	4.9 ft	1.5 m
Displacement:	8,880 lt	9,020 mt
Deadweight:	5,910 lt	6,010 mt
Clear Deck Space:	214 x 52 ft	65 x 16 m
Clear Deck Area:	11,100 ft^2	1,030 m^2
Deck Strength AFT:	1,020 lb/ft^2	5 t/m^2
Class Notations:	ABS: +A1, FIFI-2, OSV, (E), +AMS, +ACCU, +DPS-2, UWILD, NVIC 2-95 CHANGE 2 ACP, ENVIRO, GP, SPS	

Capacities

Deck Cargo:	3,250 lt	3,300 t
Fuel Oil:	253,000 gal	960 m^3
Potable Water:	38,800 gal	150 m^3
Fresh Water:	148,000 gal	560 m^3
Drill/Ballast Water:	597,000 gal	2,260 m^3
Bulk Tanks (6 tanks):	17,000 ft^3	480 m^3
Liquid Mud (2.5 SG*): *Max Structural Specific Gravity	18,200 bbl	2,900 m^3
Methanol:	2,690 bbl	430 m^3

Vessel Specifications

Machinery

Diesel Electric Vessel			
Propulsive/Total HP:			5,360 / 10,800
Z-Drives:			Yes
Propellers (2):			2680 BHP, 4-Blade, FPP
Kort Nozzles:			2
Primary Generators (4):	2,000 kw	690 v	60 hz
Driven by:			CAT 3516C
Emergency Generators (1):	420 kw	480 v	60 hz
Driven by:			CAT C18
Bow Thruster (2):			Thrustmaster TT
Driven by:			745kW Electric Motors
Total Thrust:		24.8 st	22.5 mt

Performance*

Fuel Consumption Vs Speed		
Maximum:	21.4 m^3/day (230 gph) @ 12 knots	
Cruising:	12.3 m^3/day (130 gph) @ 10 knots	
Economical:	8.1 m^3/day (88.9 gph) @ 8 knots	
Range @ 10 Knots:	17,600 nm	
Transfer Rates		
Fuel Oil:	660 gpm @ 300 ft	150 m^3/h @ 92 m
Fresh Water:	660 gpm @ 300 ft	150 m^3/h @ 92 m
Drill/Ballast Water:	660 gpm @ 300 ft	150 m^3/h @ 92 m
Bulk:	47 cfm @ 180 ft	79.8 m^3/h @ 56 m
Liquid Mud:	660 gpm @ 470 ft	150 m^3/h @ 140 m
Methanol:	330 gpm @ 300 ft	75 m^3/h @ 92 m

Deck Equipment

Anchors (2):	HHP 2566KG
Anchor Chain:	160 m of 1,320 mm chain per side
Windlass:	Electric
Crane (1):	5 t @ 9.8 m
Capstans (2):	7.5 t ROLLS ROYCE CH80E
Tugger (2):	10 t RR TUW100E

Nav/Comms Equipment

Radar(s):	2
Depth Sounder:	1
Gyro Compass:	3
Wind Speed Indicators:	3
Doppler Log:	1
Radio:	3 x VHF; 2 x SSB
Sat Com:	INMARSAT / VSAT

Accommodations

No. of Berths:	52
Cabins:	8x1-man, 14x2-man & 4x4-man
Certified to Carry:	52
Galley seating:	27
Hospital:	Yes

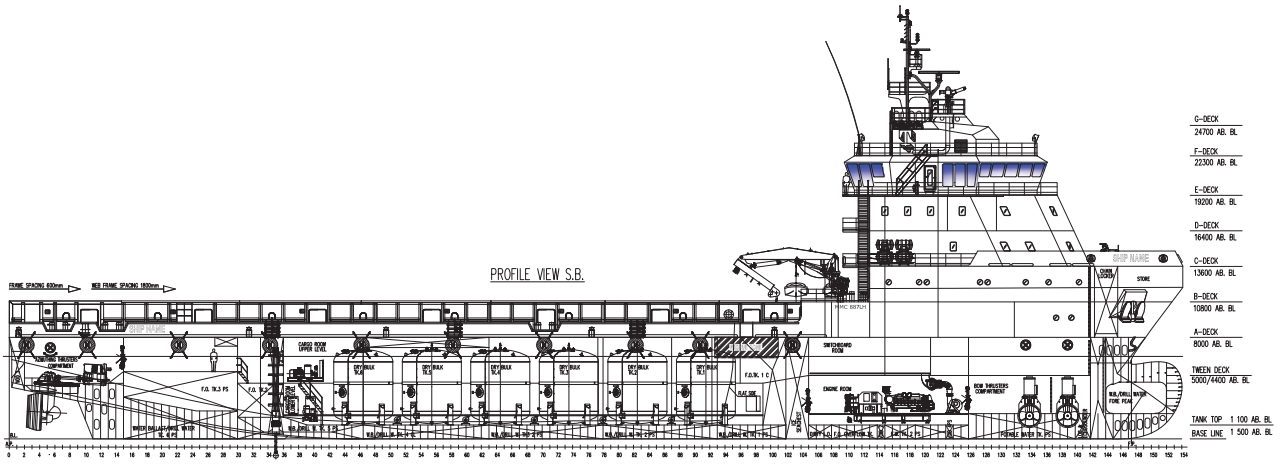
Special Equipment

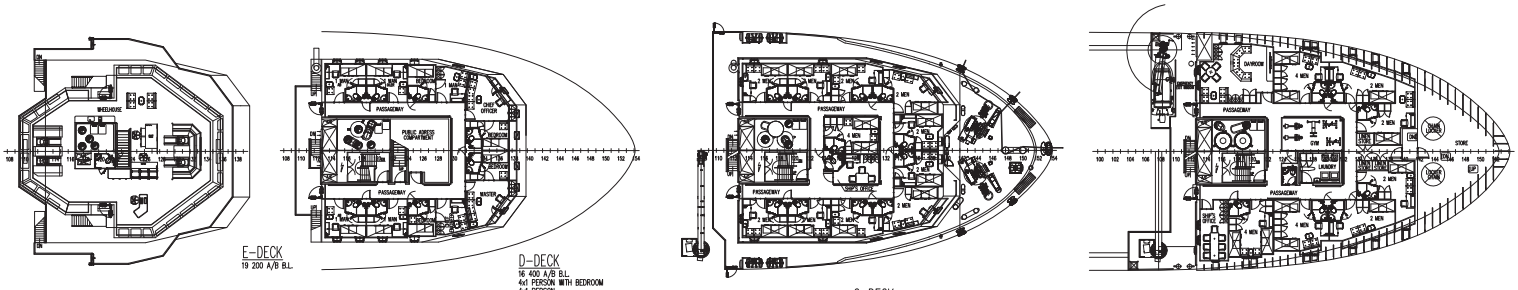
Firefighting:	FiFi-2
Dynamic Positioning:	DP-2
Ref. Systems:	3 x MRU; 2 x DGPS 1 x Microwave-based; 1 x Laser-based
Mud Mixers:	Yes
Tank Cleaning:	Yes
Rescue Zone:	Yes
Rescue Boat:	6 - Man MOB
Fuel Monitoring:	FUELTRAX
Reefer Sockets:	6x 220V
SPS Compliant:	Yes
Misc:	MSD - 52 Persons; BLUEDRIVE

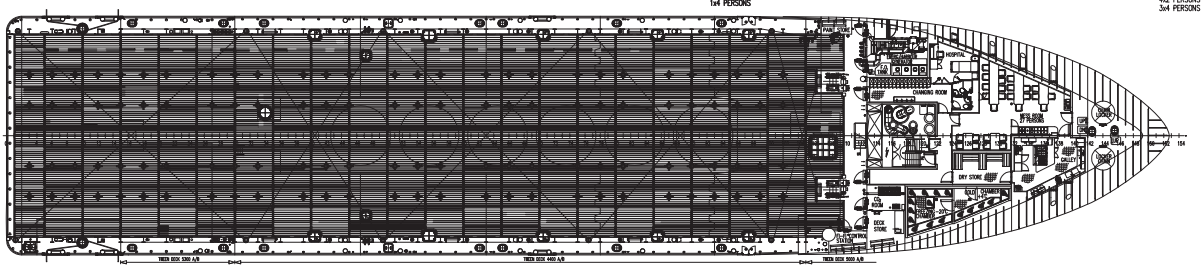
Registration

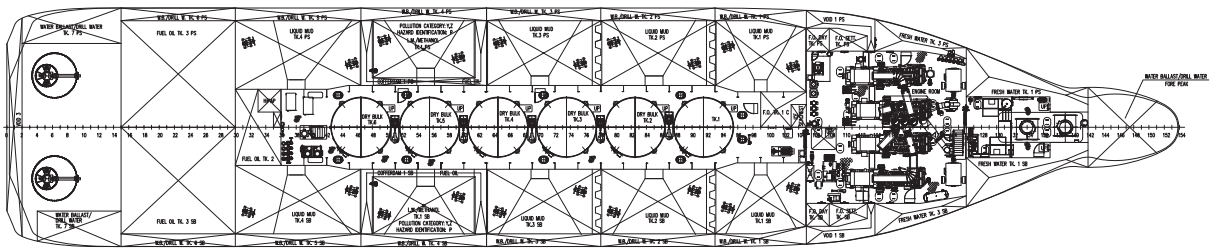
Flag: TBD		**Home Port:** TBD
Hull Number: TBD		IMO N^{O}: TBD
Year Built: 2013		**Call Sign:** TBD
Builder:		SHIPBUILDING
Tonnage (ITC):	4156 GT	1553 NT

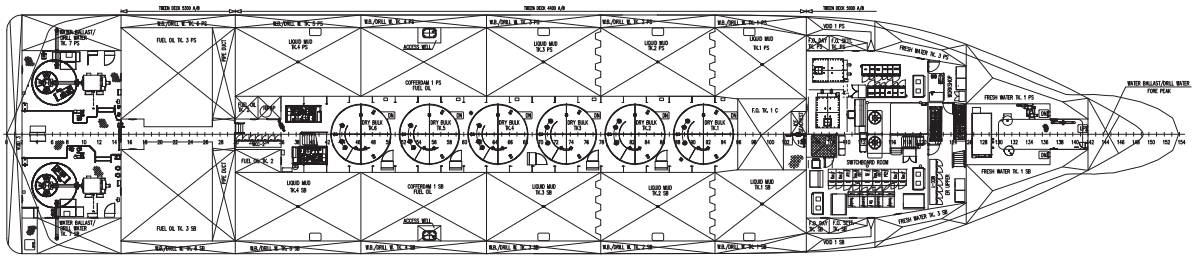
General Arrangement (Current configuration may vary)











Vessel Capacity 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.
WB Fore Peak Tk	DW/WB	199.9				199.9								
WB tk 1 PS	DW/WB	127.6				127.6								
WB tk 1 SB	DW/WB	129.9				129.9								
WB tk 2 PS	DW/WB	159.8				159.8								
WB tk 2 SB	DW/WB	159.8				159.8								
WB tk 3 PS	DW/WB	159.9				159.9								
WB tk 3 SB	DW/WB	159.9				159.9								
WB tk 4 PS	DW/WB	140.6				140.6								
WB tk 4 C	DW/WB	70.4				70.4								
WB tk 4 SB	DW/WB	140.6				140.6								
WB tk 5 PS	DW/WB	169.6				169.6								
WB tk 5 SB	DW/WB	173.8				173.8								
WB tk 6 PS	DW/WB	150.8				150.8								
WB tk 6 SB	DW/WB	150.8				150.8								
WB tk 7 PS	DW/WB	89.8				89.8								
WB tk 7 SB	DW/WB	78.5				78.5								
FW tk 1 PS	FW	150.9						150.9						
FW tk 1 SB	FW	150.9						150.9						
FW tk 2 PS	FW	45.1						45.1						
FW tk 2 SB	FW	45.1						45.1						
FW tk 3 PS	FW	83.9						83.9						
FW tk 3 SB	FW	83.9						83.9						
PW tk PS	Ship's FW	72.3					72.3							
PW tk SB	Ship's FW	74.8					74.8							
FO Overflow Tk	FO	21.7		21.7										
FO Day Tk P	FO	18.7		18.7										
FO Day Tk S	FO	18.7		18.7										
FO Settling tk P	FO	26.6		26.6										
FO Settling tk S	FO	26.6		26.6										
FO TK 1 C	FO	106.2		106.2										
FO TK 2 C	FO	81.0		81.0										
FO TK 3 PS	FO	358.1		358.1										
FO TK 3 SB	FO	358.1		358.1										
LM tk 1 PS	LM	259.8								259.8				
LM tk 1 SB	LM	259.8								259.8				
LM tk 2 PS	LM	316.4								316.4				
LM tk 2 SB	LM	316.4								316.4				
LM tk 3 PS	LM	316.6								316.6				
LM tk 3 SB	LM	316.6								316.6				
LM tk 4 PS	LM	341.5								341.5				
LM tk 4 SB	LM	341.5								341.5				
LM/METH tk 1 PS	LM/METH	214.2								214.2	214.2			
LM/METH tk 1 SB	LM/METH	214.2								214.2	214.2			
Lube Oil Tk	LO	2.7										2.7		
Dry Bulk 1	Dry Bulk	80.0			80.0									
Dry Bulk 2	Dry Bulk	80.0			80.0									
Dry Bulk 3	Dry Bulk	80.0			80.0									
Dry Bulk 4	Dry Bulk	80.0			80.0									
Dry Bulk 5	Dry Bulk	80.0			80.0									
Dry Bulk 6	Dry Bulk	80.0			80.0									
Total Volume [m^3]			0.0	1,015.7	480.0	2,261.5	147.1	559.8	0.0	2,896.8	428.3	2.7	0.0	0.0
Spec Sheet Total Volume [m^3]			0.0	956.5	480.0	2,261.5	147.1	559.8	0.0	2,896.8	428.3	2.7	0.0	0.0

*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.

DP Capability Plot

KONGSBERG

DP Capability Plot

Case number : 1
Case description : Optimum use of all thrusters
Thrusters active : T1-T4
Rudders active :

Input file reference : Foot_4254_RevF_OpenWater.scp
Last modified : 2012-11-21 13.51 (v. 2.8.0)

Length overall	92.5 m	
Length between perpendiculars	88.8 m	
Breadth	18.8 m	
Draught	5.8 m	
Displacement	7400 k t	(Cb = 0.74)
Longitudinal radius of inertia	22.1 m	(= 0.25 * Lpp)
Pos. of origin ahead of Lpp/2 (%)	0.0 m	
Wind load coefficients	Calculated (Blendermann)	
Current load coefficients	Calculated (Strip-theory)	
Wave-draft coefficients (X□)	Database (Scaled by Breadth/Length)	

Tidal current direction offset	000 deg
Wave direction offset	300 deg
Wind spectrum type	JONSWAP (gamma = 3.30)
NPDO:	ON'
Current–wave-wind interaction	OFF
Additional sway force	0.00 k
Additional sway moment	0.00 k
Additional force carco	0.00 k KN
Tidal rate	10 cm/s = 23 kp/m²
Mean wind speed	12.0 m/s

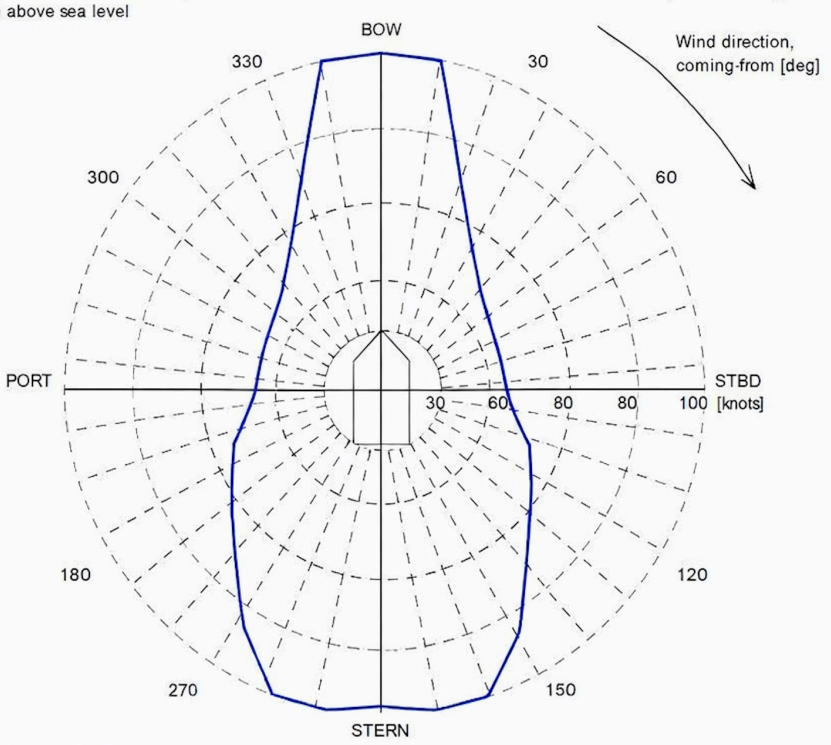
Power limitations off :
Thruster calculation : ON

#	Tunnel:	X [m]	Y [m]	F+ [tf]	F- [tf]	Max [%]	R [kW]	Rudder
1	TUNNEL	37.5	0.0	-11.2	-11.2	250	200	
2	AZIMUTH	41.2	-6.0	-11.2	-11.2	250	2000	
3	AZIMUTH	41.2	-8.0	-11.2	11.2	250	2000	
4	AZIMUTH	41.2	-8.0	-11.2	10.2	250	2000	

Performance calculations: 10820 kW
Available calculation ON

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

ERN = 98.
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 knots