



2016 GREEN PLATFORM SUPPLY VESSEL

Vessel Characteristics

Length, Overall:	288.4 ft	87.9 m
Beam:	61.7 ft	18.8 m
Depth:	26.3 ft	8 m
Maximum Draft:	21.3 ft	6.5 m
Light Draft:	8.9 ft	2.7 m
Minimum Height:	100 ft	31.9 m
Freeboard:	4.9 ft	1.5 m
Displacement:	8,100 lt	8,230 mt
Deadweight:	5,160 lt	5,240 mt
Clear Deck Space:	197 x 52 ft	60 x 16 m
Clear Deck Area:	10,200 ft ²	950 m ²
Deck Strength AFT:	1,020 lb/ft ²	5 t/m ²
Class Notations:	ABS: +A1, HD, Safety Standby Service GR B 300, FIFI-2, OSV, (E), +AMS, +ACCU, +DPS-2, HAB(WB), UWILD, NVIC 2-95 Change 2 ACP, ENVIRO	

Capacities

Deck Cargo:	2,460 lt	2,500 t
Fuel Oil:	263,000 gal	1000 m ³
Potable Water:	13,000 gal	49.4 m ³
Fresh Water:	609,000 gal	2,300 m ³
Drill/Ballast Water:	85,500 gal	320 m ³
Bulk Tanks (6 tanks):	11,400 ft ³	320 m ³
Liquid Mud (2.4 SG*):	15,100 bbl	2,400 m ³
<small>*Max Structural Specific Gravity</small>		
Methanol:	2,360 bbl	370 m ³
Oil Dispersant:	2,960 gal	11.2 m ³

Further specifications

Machinery

Main Engines (2):	MAK 6 M32 C		
<i>Total HP:</i>	8,050		
Propellers (2):	4 blade CCP, 3m diameter		
Primary Generators (2):	550 kw	480 v	60 hz
<i>Driven by:</i>	Caterpillar C18		
Secondary Generators (2):	2,000 kw	690 v	60 hz
<i>Driven by:</i>	Shaft		
Emergency Generators (1):	140 kw	480 v	60 hz
<i>Driven by:</i>	Caterpillar C6.6		
Bow Thruster (2):	1xBerg BFTT419 TT + 1xRR TCNS Swing Down		
<i>Driven by:</i>	846kW Electric Motor + 895kW CAT C32		
<i>Total Thrust:</i>	29.2 st	26.5 mt	
Stern Thruster (2):	2 x Berg BFTT 419 TT		
<i>Driven by:</i>	2x846kW electric motor		
<i>Total Thrust:</i>	28.3 st	25.7 mt	

Deck Equipment

Anchors (2):	2,835 kg HY-14 HHP Anchors
Anchor Chain:	250 m of 48 mm chain per side
Windlass:	COASTAL MARINE EQU. 1W18733-126-00
Crane (1):	2 t @ 12 m
Capstans (2):	10 t Coastal Marine, C25-10-53-21
Tugger (2):	10 t COASTAL MARINE T25

Accommodations

No. of Berths:	60
Cabins:	12x1-man & 24x2-man
Certified to Carry:	60
Galley seating:	32
Hospital:	Yes

Performance*

Fuel Consumption Vs Speed		
<i>Maximum:</i>	28.6 m ³ /day (310 gph) @ 15 knots	
<i>Cruising:</i>	11.3 m ³ /day (120 gph) @ 10 knots	
<i>Economical:</i>	8 m ³ /day (88 gph) @ 8 knots	
<i>Standby:</i>	1.5 m ³ /day (17 gph) @ 0 knots	
Range @ 10 Knots:	21,200 nm	
Transfer Rates		
<i>Fuel Oil:</i>	660 gpm @ 300 ft	150 m ³ /h @ 92 m
<i>Fresh Water:</i>	660 gpm @ 300 ft	150 m ³ /h @ 92 m
<i>Drill/Ballast Water:</i>	660 gpm @ 300 ft	150 m ³ /h @ 92 m
<i>Bulk:</i>	31.8 cfm @ 190 ft	54 m ³ /h @ 57 m
<i>Liquid Mud:</i>	660 gpm @ 470 ft	150 m ³ /h @ 140 m
<i>Methanol:</i>	330 gpm @ 300 ft	75 m ³ /h @ 92 m

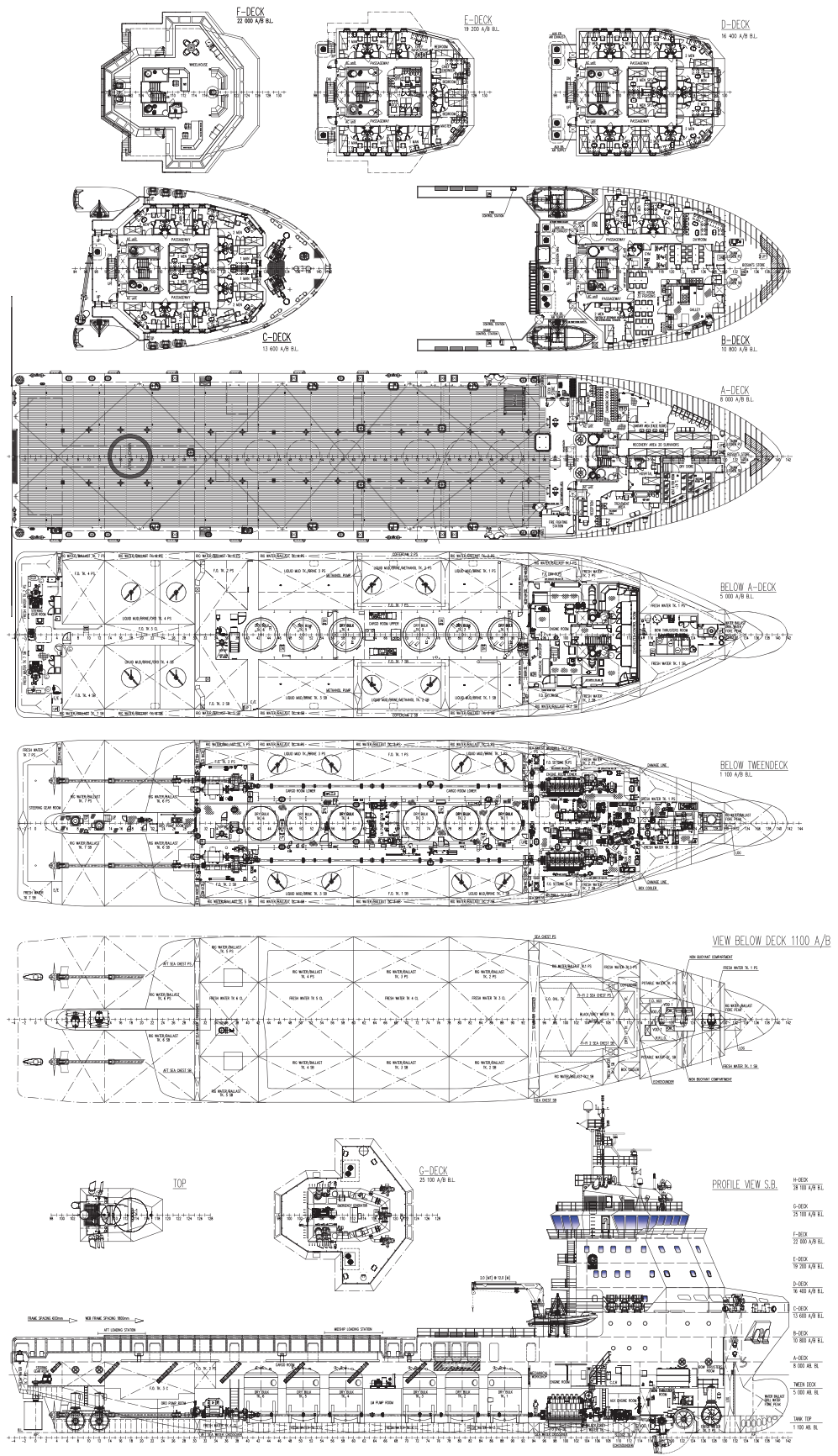
Nav/Comms Equipment

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

Special Equipment

Firefighting:	FIFI-2
Dynamic Positioning:	DP-2
Ref. Systems:	3 x MRU; 3 x DGPS 1 x Microwave-based; 1 x Laser-based
Mud Circulation System/ Mud Mixers:	Yes/Yes
Tank Cleaning:	Yes
Rescue Zone:	Yes
Rescue Boat:	15 Person MP-800 Springer FRC
Aux. Rescue Boat:	15 PERSON MP-800 SPRINGER FRC
SPS Compliant:	Yes
Misc:	ORO Capacity - 705.8m ³ ; Scramble Nets; MSD - 60 Persons

General Arrangement (Current configuration may vary.)



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.
FOREPEAK TK	DW/WB	191.2				191.2								
DB/WING TK 1 PS	DW/WB/FW	73.0				73.0		73.0						
DB/WING TK 1 STBD	DW/WB/FW	73.0				73.0		73.0						
DB/WING TK 2 PS	DW/WB/FW	116.0				116.0		116.0						
DB/WING TK 2 STBD	DW/WB/FW	116.0				116.0		116.0						
DB/WING TK 3 PS	DW/WB/FW	91.8				91.8		91.8						
DB/WING TK 3 STBD	DW/WB/FW	91.8				91.8		91.8						
DB/WING TK 4 PS	DW/WB/FW	137.3				137.3		137.3						
DB/WING TK 4 STBD	DW/WB/FW	137.3				137.3		137.3						
DB/WING TK 5 PS	DW/WB/FW	82.6				82.6		82.6						
DB/WING TK 5 STBD	DW/WB/FW	81.1				81.1		81.1						
DB/WING TK 6 PS	DW/WB/FW	170.5				170.5		170.5						
DB/WING TK 6 STBD	DW/WB/FW	170.5				170.5		170.5						
DB/WING TK 7 PS	DW/WB/FW	58.8				58.8		58.8						
DB/WING TK 7 STBD	DW/WB/FW	58.8				58.8		58.8						
FW TK 7 PORT AFT PEAK	FW	69.0				69.0		69.0						
FW TK 7 STBD AFT PEAK	FW	63.4				63.4		63.4						
POTABLE WATER	Ship's FW	24.7					24.7							
POTABLE WATER	Ship's FW	24.7					24.7							
FW WING TK 1PS	FW	174.2						174.2						
FW WING TK 1 STBD	FW	174.2						174.2						
FW DB/WING TK 2 PS	FW	80.3						80.3						
FW DB/WING TK 2 STBD	FW	74.7						74.7						
FW DB CENTRE 3	FW	81.5						81.5						
FW DB CENTRE 4	FW	97.8						97.8						
FW DB CENTRE 5	FW	97.8						97.8						
FW DB CENTRE 6	FW	64.7						64.7						
FO DAY TANK PORT	FO	28.4		28.4										
FO DAY TANK STBD	FO	28.4		28.4										
FO SETTLING TANK P	FO	24.5		24.5										
FO SETTLING TANK S	FO	24.5		24.5										
FO WING TK 1P	FO	178.3		178.3										
FO WING TK 1S	FO	178.3		178.3										
FO WING TK 2P	FO	156.6		156.6										
FO WING TK 2S	FO	156.1		156.1										
FO 3 CENTRE	FO	93.1		93.1										
FO WING TANK 4P	FO	117.2		117.2										
FO WING TANK 4S	FO	117.2		117.2										
MUD/BRINE 1 P	LM/BR	284.9								284.9				
MUD/BRINE 1 S	LM/BR	284.9								284.9				
MUD/METH/BRINE 2 P	LM/BR/METH	187.3								187.3	187.3			
MUD/METH/BRINE 2 S	LM/BR/METH	187.3								187.3	187.3			
MUD/BRINE 3 P	LM/BR	376.4								376.4				
MUD/BRINE 3 S	LM/BR	376.4								376.4				
MUD/BRINE/ORO 4 P	LM/BR/ORO	352.9								352.9				
MUD/BRINE/ORO 4 S	LM/BR/ORO	352.9								352.9				
BULK TANK 1	DRY BULK	54.0			54.0									
BULK TANK 2	DRY BULK	54.0			54.0									
BULK TANK 3	DRY BULK	54.0			54.0									
BULK TANK 4	DRY BULK	54.0			54.0									
BULK TANK 5	DRY BULK	54.0			54.0									
BULK TANK 6	DRY BULK	54.0			54.0									
DISPERSANT TK STBD	DISP	11.2												11.2
LUBE OIL TK 1	LO	8.5										8.5		
LUBE OIL TK 2	LO	5.6										5.6		
RR LO TK THRUST	LO	0.6										0.6		
Total Volume [m ³]			0.0	1,102.6	324.0	1,782.1	49.4	2,436.1	0.0	2,403.0	374.6	14.7	0.0	11.2
Spec Sheet Total Volume [m ³]			0.0	996.8	324.0	323.6	49.4	2,303.7	0.0	2,403.0	374.6	14.7	0.0	11.2

*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 BAE HULL 111

Case number : 1
Case description : Optimum use of all thrusters
Thrusters active : T1-T6
Rudders active :

Version : StatCap v. 3.3.1
Input file reference : Foot_5343_RevD.scp
Last modified : 2019-02-25 11.54

Length overall : 87.9 m
Length between perpendiculars : 81.2 m
Breadth : 18.8 m
Draught : 5.9 m
Displacement : 6307.0 t (Cb = 0.68)
Longitudinal radius of inertia : 20.3 m (= 0.25 * Lpp)
Pos. of origin ahead of Lpp/2 (Xo) : 0.0 m
Wind load coefficient : Calculated (Blendermann)
Current load coefficient : Calculated (Strip-theory)
Wave-drift load coefficient : Database (Scaled by Breadth/Length)

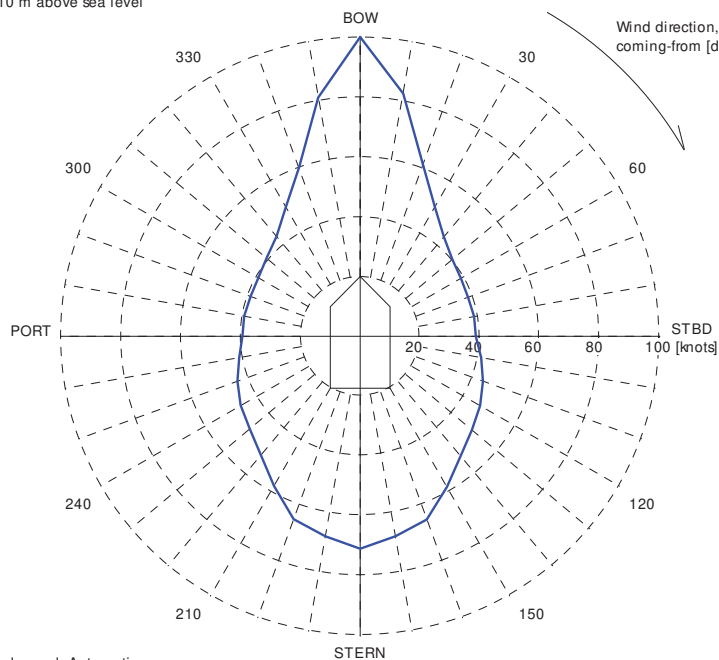
Tidal current direction offset : 0.0 deg
Wave direction offset : 0.0 deg
Wave spectrum type : JONSWAP (gamma = 3.30)
Wind spectrum type : NPD
Current - wave-drift interactor : OFF
Load dynamics allowance : 1.0 * STD of thrust demand
Additional surge force : 0.0 tf
Additional sway force : 0.0 tf
Additional yawing moment : 0.0 tf.m
Additional force director : Fixed
Density of salt water : 1026.0 kg/m³
Density of air : 1.226 kg/m³ (15 °C)

Power limitations : ON
Thrust loss calculator : ON

#	Thruster	X [m]	Y [m]	F+ [tf]	F- [tf]	Max [%]	Pe [kW]	Rudder
1	TUNNEL	35.8	0.0	12.7	-12.7	100	846	
2	AZIMUTH	30.2	0.0	15.8	-9.7	100	894	
3	TUNNEL	-33.4	0.0	12.7	-12.7	100	846	
4	TUNNEL	-36.1	0.0	12.7	-12.7	100	846	
5	PROP_AS	-40.6	-4.8	40.0	-22.0	100	3000	SPADE
6	PROP_AS	-40.6	4.8	40.0	-22.0	100	3000	SPADE

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

ERN = 97.
ERN are subject to DNV approval



Rotating tidal current: 1.46 knots
Rotating wind induced current: 0.000*Uwi knots