

# CAROLINE TIDE III



AMBROSIUS TIDE as shown, CAROLINE TIDE III similar

## POET 76 M SSB OIL REC PLATFORM SUPPLY VESSEL

### Vessel Characteristics

Length, Overall:	249.3 ft	76 m
Beam:	57.7 ft	17.6 m
Depth:	25.6 ft	7.8 m
Maximum Draft:	21 ft	6.4 m
Light Draft:	10.2 ft	3.1 m
Minimum Height:	85.6 ft	26.1 m
Freeboard:	4.6 ft	1.4 m
Displacement:	6,240 lt	6,340 mt
Deadweight:	3,650 lt	3,700 mt
Clear Deck Space:	167 x 47 ft	51 x 14 m
Clear Deck Area:	7,660 ft <sup>2</sup>	710 m <sup>2</sup>
Deck Strength AFT:	1,540 lb/ft <sup>2</sup>	7.5 t/m <sup>2</sup>
Class Notations:	ABS: +A1, (E), OSV, OSR-C1, FFV-1, +AMS, +DPS-2, SAFETY STANDBY GR. B-(145), UWILD, RW	

### Capacities

Deck Cargo:	2,040 lt	2,070 t
Fuel Oil:	284,000 gal	1,070 m <sup>3</sup>
Potable Water:	102,000 gal	390 m <sup>3</sup>
Fresh Water:	32,100 gal	120 m <sup>3</sup>
Drill/Ballast Water:	380,000 gal	1,440 m <sup>3</sup>
Bulk Tanks (6 tanks):	9,890 ft <sup>3</sup>	280 m <sup>3</sup>
Liquid Mud (2.5 SG*):	4,410 bbl	700 m <sup>3</sup>
*Max Structural Specific Gravity		
Methanol:	1,850 bbl	290 m <sup>3</sup>
Base Oil:	1,600 bbl	250 m <sup>3</sup>
Oil Dispersant:	3,790 gal	14.3 m <sup>3</sup>
Fire Fighting Foam:	6,640 gal	25.1 m <sup>3</sup>

## TIDEWATER

Find out more

[tdw.com](http://tdw.com)

Pg.2 Further Specifications

Pg.4 Capacity Table

Pg.3 General Arrangement

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**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.

LAST UPDATE: 11/23/2023

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## Further specifications



### Machinery

Main Engines (2):	Niigata 6L28HX		
Total HP:	4,930		
Z-Drives:	Yes		
Propellers (2):	Niigata ZP-41 (2x1838kw)		
Kort Nozzles:	2		
Secondary Generators (4):	590 kw	440 v	60 hz
Driven by:	Caterpillar 3412C		
Emergency Generators (1):	99 kw	440 v	60 hz
Driven by:	Volvo D7A-T		
Bow Thruster (2):	Kawasaki KT-72B3		
Driven by:	515 kw Electric Motor		
Total Thrust:	17.3 st	15.7 mt	

### Deck Equipment

Anchors (2):	5820 LBS STOCKLESS
Anchor Chain:	270 m of 46 mm chain per side
Windlass:	Electro-hydraulic
Crane (1):	5 t @ 9.8 m
Capstans (2):	5 t ME-HVC
Tugger (2):	10 t ME-HTGW/SD

### Accommodations

No. of Berths:	50
Cabins:	6x1-man, 6x2-man & 8x4-man
Certified to Carry:	50
Galley seating:	40
Hospital:	Yes

### Registration

Flag: VANUATU	Home Port: PORT VILA	
Hull Number: 1469	IMO N <sup>o</sup> : 9656486	
Year Built: 2012	Call Sign: YJRV7	
Builder:	JIANGSU SUNHOO SHIPYARD	
Tonnage (ITC):	3404 GT	1021 NT

### Performance\*

Fuel Consumption Vs Speed		
Maximum:	20 m³/day (220 gph) @ 13 knots	
Cruising:	17.3 m³/day (190 gph) @ 12 knots	
Economical:	15 m³/day (160 gph) @ 11 knots	
Standby:	1 m³/day (11 gph) @ 0 knots	
Range @ 12 Knots:	13,600 nm	
Transfer Rates		
Fuel Oil:	440 gpm @ 260 ft	100 m³/h @ 80 m
Fresh Water:	440 gpm @ 230 ft	100 m³/h @ 70 m
Drill/Ballast Water:	440 gpm @ 230 ft	100 m³/h @ 70 m
Bulk:	27.5 cfm @ 190 ft	46.7 m³/h @ 57 m
Liquid Mud:	330 gpm @ 670 ft	75 m³/h @ 200 m
Methanol:	220 gpm @ 210 ft	50 m³/h @ 64 m

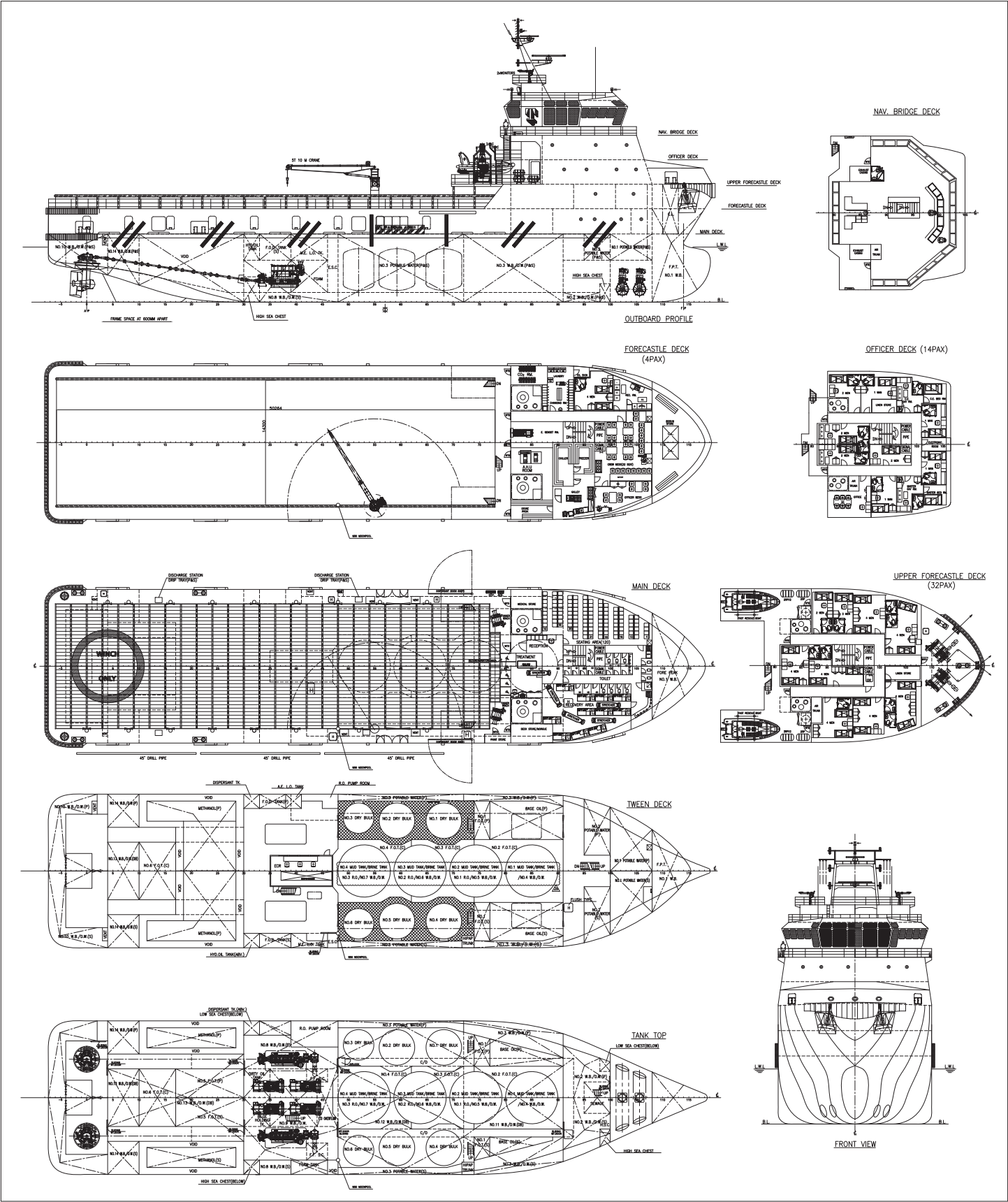
### Nav/Comms Equipment

Radar(s):	2
Depth Sounder:	1
Gyro Compass:	3
Wind Speed Indicators:	3
Doppler Log:	1
Radio:	2 x VHF
Sat Com:	1XINMARSAT-C

### Special Equipment

Firefighting:	FiFi-1
Dynamic Positioning:	DP-2
Ref. Systems:	2 x MRU; 2 x DGPS 1 x Microwave-based; 1 x Laser-based
Water Maker:	30 T/DAY
Mud Circulation System/ Mud Mixers:	Yes/Yes
Rescue Zone:	Yes
Rescue Boat:	1 x 15-Man FRC
Fuel Monitoring:	FUELTRAX
Gas Detection:	FIXED GAS DETECTION
Reefer Sockets:	2x 440V; 2x 220V
SPS Compliant:	Yes
Misc:	Recovered Oil Capable-536.5 m3; Food Waste Grinder; 3x2000W searchlights, MSD-65 persons/ day; Cargo Meters-FO,FW,2xDW

\*Approximate values assuming Ideal Conditions





Tank	Contents	Volume m <sup>3</sup>	Base Oil	Fuel Oil	Dry Bulk	DW/WB	Potable Water	Fresh Water	Brine	Liquid Mud	Methanol	Lube Oil	Foam	Oil Disp.
Tank 1 C	DW/WB	210.3				210.3								
Tank 2 P	DW/WB	15.1				15.1								
Tank 2 S	DW/WB	13.3				13.3								
Tank 3 P	DW/WB	107.5				107.5								
Tank 3 S	DW/WB	100.4				100.4								
DB Tank 3 P	DW/WB	28.2				28.2								
DB Tank 3 S	DW/WB	27.6				27.6								
Tank 4 C	DW/WB/LM	164.9				164.9				164.9				
Tank 5 C	DW/WB/LM/ORO	164.9				164.9				164.9				
Tank 6 C	DW/WB/LM/ORO	185.6				185.6				185.6				
Tank 7 C	DW/WB/LM/ORO	186.0				186.0				186.0				
Tank 8 P	DW/WB	71.7				71.7								
Tank 8 S	DW/WB	78.0				78.0								
Tank 9 C	DW/WB	38.4				38.4								
Tank 10 P	DW/WB	86.4				86.4								
Tank 10 S	DW/WB	94.6				94.6								
Tank 11 DB C	DW/WB	121.9				121.9								
Tank 12 DB C	DW/WB	111.8				111.8								
Tank 13 DB C	DW/WB	242.6				242.6								
Tank 14 P	DW/WB	45.9				45.9								
Tank 14 S	DW/WB	45.9				45.9								
Tank 1 FW P	Ship's FW	73.7					73.7							
Tank 1 FW S	Ship's FW	66.3					66.3							
Tank 2 FW P	Ship's FW	48.2					48.2							
Tank 2 FW S	Ship's FW	48.2					48.2							
Tank 3 FW P	Ship's FW	75.9					75.9							
Tank 3 FW S	Ship's FW	74.8					74.8							
Tank 4 FW P	FW	60.8						60.8						
Tank 4 FW S	FW	60.7						60.7						
Base Oil Tank P	FO/BO	145.1	145.1	145.1										
Base Oil Tank S	FO/BO	108.8	108.8	108.8										
FO Tank 1 P	FO	41.1		41.1										
FO Tank 1 S	FO	33.6		33.6										
FO Tank 2 C	FO	223.6		223.6										
FO Tank 3 C	FO	112.7		112.7										
FO Tank 4 C	FO	156.1		156.1										
FO Tank 5 P	FO	62.1		62.1										
FO Tank 5 S	FO	62.1		62.1										
FO Tank 6 C	FO	129.0		129.0										
FO Day Tank P	FO	14.7		14.7										
FO Day Tank S	FO	17.6		17.6										
FO Overflow Tank	FO	17.5		17.5										
Methanol Tank P	METH	147.0									147.0			
Methanol Tank S	METH	147.0									147.0			
Foam Tk	Foam	25.1											25.1	
Dispersant	Disp.	14.4												14.4
AE LO Tank	LO	14.5										14.5		
ME LO Tank	LO	8.8										8.8		
Dry Bulk Tank 1	Dry Bulk	50.5			50.5									
Dry Bulk Tank 2	Dry Bulk	50.5			50.5									
Dry Bulk Tank 3	Dry Bulk	39.0			39.0									
Dry Bulk Tank 4	Dry Bulk	50.5			50.5									
Dry Bulk Tank 5	Dry Bulk	50.5			50.5									
Dry Bulk Tank 6	Dry Bulk	39.0			39.0									
Total Volume [m <sup>3</sup> ]			253.8	1,123.9	280.0	2,140.9	387.1	121.4	0.0	701.3	294.0	23.3	25.1	14.4
Spec Sheet Total Volume [m <sup>3</sup> ]			253.8	1,074.1	280.0	1,439.5	387.1	121.4	0.0	701.3	294.0	23.3	25.1	14.4

\*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

## H1468

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

Input file reference : Dp65447.scp  
Last modified : 2011-01-20 13.12 (v. 2.8.0)

Length overall : 76.0 m  
Length between perpendiculars : 68.4 m  
Breadth : 17.6 m  
Draught : 6.3 m  
Displacement : 6320.0 t (Cb = 0.81)  
Longitudinal radius of inertia : 17.1 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)

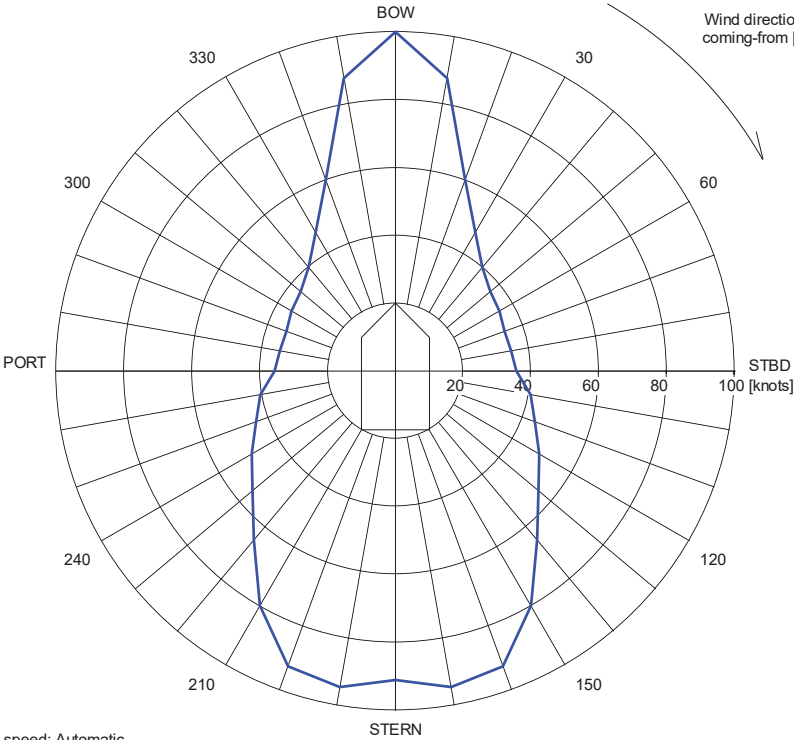
Tidal current direction offset : 0.0 deg  
Wave direction offset : 0.0 deg  
Wave spectrum type : JONSWAP (gamma = 3.30)  
Wind spectrum type : NPD  
Current - wave-drift interaction : OFF  
Load dynamics allowance : 1.0 \* STD of thrust demand  
Additional surge force : 0.0 tf  
Additional sway force : 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	29.2	0.0	7.7	-7.7	100	515	
2	TUNNEL	27.0	0.0	7.7	-7.7	100	515	
3	AZIMUTH	-33.2	-4.4	32.5	-20.0	100	1838	
4	AZIMUTH	-33.2	4.4	32.5	-20.0	100	1838	

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

ERN = 96.  
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\*Uwi knots