PACIFIC AURORA





CONTRACTOR BRECOM

Vessel Characteristics

Length, Overall:	240.8 ft	73.4 m				
Beam:	52.5 ft	16 m				
Depth:	23 ft	7 m				
Maximum Draft:	19.4 ft	5.9 m				
Light Draft:	8.5 ft	2.6 m				
Freeboard:	3.6 ft	1.1 m				
Displacement:	5,000 lt	5,080 mt				
Deadweight:	3,190 lt	3,240 mt				
Clear Deck Space:	165 x 44 ft	50 x 14 m				
Clear Deck Area:	7,320 ft²	680 m ²				
Deck Strength AFT:	1,020 lb/ft²	5 t/m²				
Class Notations:	DNV: +1A1, Fire fighter(I), DYNPOS(AUTR), E0, SF					

Capacities

Deck Cargo:	1,570 lt	1,600 t
Fuel Oil:	523,000 gal	1,980 m ³
Potable Water:	60,300 gal	230 m ³
Fresh Water:	173,000 gal	650 m ³
Drill/Ballast Water:	100,000 gal	380 m ³
Bulk Tanks (5 tanks):	10,800 ft³	310 m ³
Liquid Mud (2.5 SG*): *Max Structural Specific Gravity	5,740 bbl	910 m ³
Base Oil:	1,260 bbl	200 m ³
Oil Dispersant:	2,850 gal	10.8 m ³

TIDEWATER

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PACIFIC AURORA Further specifications



Machinery

Main Engines (2):		BERG	EN C25:33L8P			
Total HP:	6,300					
Propellers (2):	RRM CPF					
Primary Generators (1):	270 kw	440 v	60 hz			
Driven by:			CAT 3406			
Secondary Generators (2):	1,280 kw	440 v	60 hz			
Driven by:	MAIN ENGINES					
Emergency Generators (1):	270 kw 440 v 60 hz					
Driven by:	CAT 3406					
Bow Thruster (2):	RRM TT 1650 DP CP					
Driven by:		600KW ELEC	TRIC MOTORS			
Total Thrust:	20.1 st 18.2 mt					
Stern Thruster (2):	RRM TT 1650 DP CP					
Driven by:	600KW ELECTRIC MOTORS					
Total Thrust:		20.1 st	18.2 mt			

Performance*

Fuel Consumption Vs Speed								
Maximum:	21.7 m³/day (240 gph) @ 14 knots							
Cruising:	13.5 m	n³/day (150 gph) @ 12 knots						
Economical:	11 m	11 m³/day (120 gph) @ 10 knots						
Standby:	1.2 n	1.2 m³/day (13.2 gph) @ 0 knots						
Transfer Rates								
Fuel Oil:	440 gpm @ 230 ft	100 m³/h @ 71 m						
Fresh Water:	660 gpm @ 230 ft	150 m³/h @ 71 m						
Drill/Ballast Water:	660 gpm @ 230 ft	150 m³/h @ 71 m						
Bulk:	47.1 cfm @ 190 ft	80 m³/h @ 57 m						
Liquid Mud:	330 gpm @ 600 ft	75 m³/h @ 180 m						
Base Oil:	660 gpm @ 230 ft	150 m³/h @ 71 m						
Brine:	330 gpm @ 600 ft	75 m³/h @ 180 m						

Nav/Comms Equipment

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

Special Equipment

Firefighting:	FiFi-1
Dynamic Positioning:	DP-2
Ref. Systems:	3 x MRU; 2 x DGPS 1 x Laser-based
Mud Circulation System	Yes
Rescue Zone:	Yes
Rescue Boat:	Maritime Partner Seabear 23 MKII, 10-Man
Gas Detection:	FIXED GAS DETECTION + 2XPORTABLE SENSORS
Reefer Sockets:	2x 440V 500A; 4x 440V 63A; 1x 220V 32A
Misc:	MSD; Paraguard Type Stretcher; Scramble nets P/S; Food Waste Grinder, Winching Zone

FUPDATE: 11/18/2023

Deck Equipment

Anchors (2):	2100 KG
Anchor Chain:	440 m of 36 mm chain per side
Windlass:	RRM 10T, Hydraulic
Crane (1):	2 t @ 10 m
Capstans (2):	10 t RRM 0-19 M/MIN
Tugger (2):	10 t RRM

Accommodations

No. of Berths:	28
Cabins:	6x1-man, 7x2-man & 2x4-man
Certified to Carry:	28
Galley seating:	16
Hospital:	Yes

Registration

Flag: VANUATU	Home Port: PORT VILA						
Hull Number: 180	IMO N^O: 9386287						
Year Built: 2008	Call Sign: YJQA2						
Builder:	Drydocks World - Singapore Pte Ltd						
Tonnage (ITC):	2218 GT	955 NT					

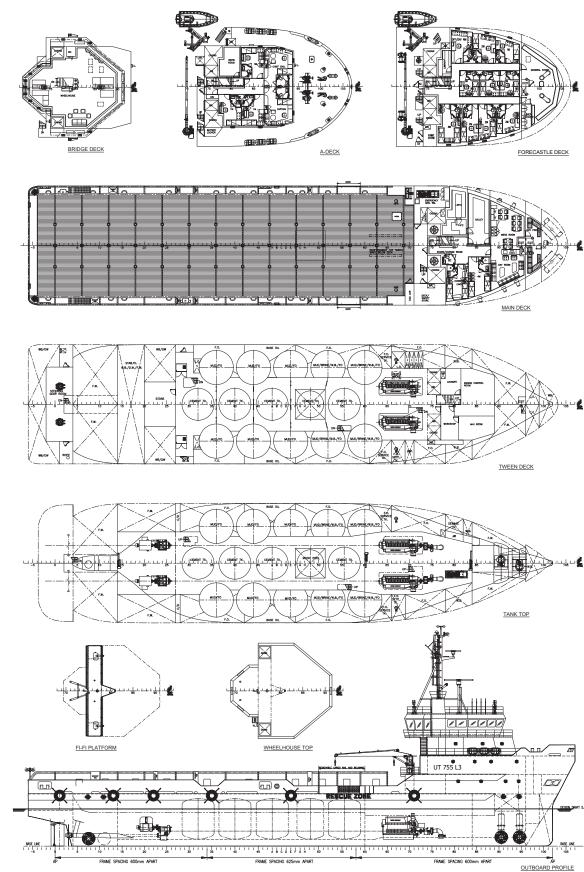
*Approximate values assuming Ideal Conditions

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PACIFIC AURORA General Arrangement (Current configuration may vary.)





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PACIFIC AURORA Capacity Table



		Volume	Base	Fuel	Dry		Potable	Fresh		Liquid		Lube		Oil
Tank	Contents	m ³	Oil	Oil	Bulk	DW/WB	Water	Water	Brine	Mud	Methanol	Oil	Foam	Disp.
1 FOREPEAK	DW/WB	32.7				32.7								
4 DB/WING TK 2 SB	DW/WB	66.1				66.1								
5 DB/WING TK 2 PS	DW/WB	48.1				48.1								
29 STAB TK NO 1	DW/WB/FW	139.7				139.7		139.7						
51 TOP WING TK 7 SB	DW/WB	50.9				50.9								
52 TOP WING TK 7 PS	DW/WB	50.9				50.9								
54 AFT PEAK TK SB	DW/WB	65.8				65.8								
55 AFT PEAK TK PS	DW/WB	65.8				65.8								
2 DB/WING TK 1 SB	SHIP'S FW	120.5					120.5							
3 DB/WING TK 1 PS	SHIP'S FW	107.7					107.7							
14 WING TK 7 SB	FW	74.5						74.5						
15 WING TK 7 PS	FW	74.4						74.4						
16 WING TK 8 SB	FW	172.7						172.7						
17 WING TK 8 PS	FW	172.7						172.7						
18 DB TK 7 C	FW	20.4						20.4						
19 MUD TK 1 SB	LM/BR/DW/WB/FO	87.7		87.7		87.7				87.7				
20 MUD TK 1 PS	LM/BR/DW/WB/FO	87.7		87.7		87.7				87.7				
21 MUD TK 2 SB	LM/BR/DW/WB/FO	84.6		84.6		84.6				84.6				
22 MUD TK 2 PS	LM/BR/DW/WB/FO	84.6		84.6		84.6				84.6				
23 MUD TK 3 SB	LM/FO	84.6		84.6		0110				84.6				
24 MUD TK 3 PS	LM/FO	84.6		84.6						84.6				
25 MUD TK 4 SB	LM/FO	99.8		99.8						99.8				
26 MUD TK 4 PS	LM/FO	99.8		99.8						99.8				
27 MUD TK 5 SB	LM/FO/BO	99.8	99.8	99.8										
28 MUD TK 5 PS	LM/FO/BO	99.8	99.8	99.8										
10 DB/WING TK 5 SB	FO	101.9	55.0	101.9										
11 DB/WING TK 5 PS	FO	101.9		101.9										
30 FO SERVICE TK SB	FO	39.1		39.1										
31 FO SERVICE TK 95	FO	39.1		39.1										
53 FO SETTLING TK	FO	34.2		34.2										
6 DB/WING TK 3 SB	FO	134.8		134.8										
7 DB/WING TK 3 SB	FO	153.4		153.4										
8 DB/WING TK 4 SB	FO	144.7		144.7										
9 DB/WING TK 4 95	FO	144.6		144.6										
12 DB/WING TK 6 SB	FO	144.6		144.0										
13 DB/WING TK 6 PS	FO	143.5		143.5										
CEMENT TANK 1	DRY BULK	64.8		143.5	64.8									
CEMENT TANK 1	DRY BULK	47.1			47.1									
CEMENT TANK 3	DRY BULK	64.8			64.8									
CEMENT TANK 4	DRY BULK	64.8			64.8									
CEMENT TANK 5	DRY BULK	64.8			64.8									
32 LO STORES ME	LO	11.4			04.0							11.4		
32 LO STORES ME 33 LO STORES AUX ENG	LO	11.4 3.8										3.8		
34 LO STORES THRUSTER	LO	3.8										3.8		
57 LO STORES GEAR OIL	LO	3.6										3.6		
58 LO STORES STERN TUBE	LO	3.6										3.6		
56 DISPERSANT TK	DISP.	10.8										0.0		10.8
50 DISPERSANT TK	DISP.	10.8												10.0
	Total Vo Spec Sheet Total Vo	lume [m ³] lume [m ³]		2,093.7 1,981.3		864.6 380.3	228.2 228.2	654.4 654.4	0.0	913.0 913.0	0.0	26.2 26.2	0.0	10.8 10.8

*Capacities shown are for lead vessel. Actual capacities may vary slightly.

*Capacities shown in $\ensuremath{\mathsf{RED}}$ are excluded from the total volume.

*Capacities shown in **BLUE** are included in another Tank's Capacity.

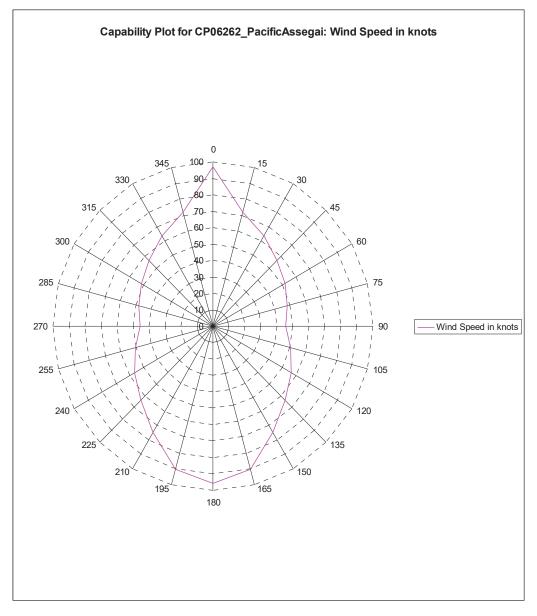
*Capacities shown in GREEN are counted for multiple Tank Capacities.

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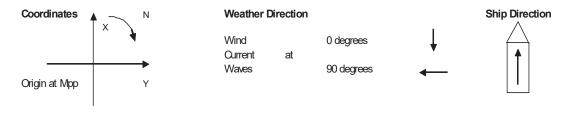
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PACIFIC AURORA DP Capability Plot





Wind Angle is stepped from 0 to 360 deg. Wave Angle is stepped from 0 to 360 deg. Current Angle is stepped from 0 to 360 deg. Wind Speed is Set Automatically. Wave Height is Derived from Wind Speed. Current Speed is 1.5 knots.



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