



# Vessel Characteristics

IMT 966 AHTS

Length, Overall:	216.5 ft	66 m							
Beam:	52.5 ft	16 m							
Depth:	24 ft	7.3 m							
Maximum Draft:	20.3 ft	6.2 m							
Freeboard:	3.6 ft	1.1 m							
Displacement:	4,530 lt	4,600 mt							
Deadweight:	2,470 lt	2,510 mt							
Clear Deck Space:	107 x 42 ft	33 x 13 m							
Clear Deck Area:	4,480 ft²	420 m <sup>2</sup>							
Deck Strength AFT:	1,020 lb/ft²	5 t/m <sup>2</sup>							
Class Notations:		DNV: +1A, Fire fighter(I), Offshore service vessel(Anchor nandling, Towing), DYNPOS(AUTR), E0							

#### **Capacities**

Deck Cargo:	860 lt	870 t
Fuel Oil:	299,000 gal	1,130 m <sup>3</sup>
Potable Water:	120,000 gal	460 m³
Drill/Ballast Water:	246,000 gal	930 m³
Bulk Tanks (4 tanks):	6,530 ft³	180 m³
Liquid Mud (2.5 SG*): *Max Structural Specific Gravity	2,920 bbl	460 m <sup>3</sup>
Brine:	780 bbl	120 m <sup>3</sup>
Oil Dispersant:	2,550 gal	9.6 m <sup>3</sup>
Fire Fighting Foam:	1,220 gal	4.6 m <sup>3</sup>

# **TIDEWATER**

#### Find out more

#### Pg.2 Further Specifications Pg.4 General Arrangement

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Pg.5 Capacity Table Pg.6 DP Capability Plot

# Further specifications



#### **Machinery**

Total HP:         8,810           Propellers (2):         MAN CPP           Gears (2):         MAN           Kort Nozzles:         2           Rudders (2):         HI-LIFT FLAP RUDDERS           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):         BRUNVOLL FU-63-LTC-1550           Driven by:         600KW ELECTRIC MOTORS           Total Thrust:         20.1 st         18.2 mt           Stern Thruster (2):         BRUNVOLL FU-63-LTC-1550           Driven by:         600KW ELECTRIC MOTORS           Total Thrust:         20.1 st         18.2 mt	Main Engines (2):			MAN 9L27/38			
Gears (2):         MAN           Kort Nozzles:         2           Rudders (2):         HI-LIFT FLAP RUDDERS           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):         BRUNVOLL FU-63-LTC-1550           Driven by:         600KW ELECTRIC MOTORS           Total Thrust:         20.1 st         18.2 mt           Stern Thruster (2):         BRUNVOLL FU-63-LTC-1550           Driven by:         600KW ELECTRIC MOTORS	Total HP:	8,810					
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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):         BRUNVOLL FU-63-LTC-1550           Driven by:         600KW ELECTRIC MOTORS           Total Thrust:         20.1 st         18.2 mt           Stern Thruster (2):         BRUNVOLL FU-63-LTC-1550           Driven by:         600KW ELECTRIC MOTORS	Rudders (2):		HI-LIFT FL	AP RUDDERS			
Secondary Generators (2):  Driven by:  Emergency Generators (1):  Driven by:  Emergency Generators (1):  Driven by:  CAT 3406  Bow Thruster (2):  BRUNVOLL FU-63-LTC-1550  Driven by:  CONTROLL Thrust:  Driven by:  BRUNVOLL FU-63-LTC-1550  Driven by:  BRUNVOLL FU-63-LTC-1550  Driven by:  BRUNVOLL FU-63-LTC-1550  Driven by:  GOOKW ELECTRIC MOTORS	Primary Generators (1):	270 kw 440 v 60 h					
Driven by:         MAIN ENGINES           Emergency Generators (1):         270 kw         440 v         60 hz           Driven by:         CAT 3406           Bow Thruster (2):         BRUNVOLL FU-63-LTC-1550           Driven by:         600KW ELECTRIC MOTORS           Total Thrust:         20.1 st         18.2 mt           Stern Thruster (2):         BRUNVOLL FU-63-LTC-1550           Driven by:         600KW ELECTRIC MOTORS	Driven by:			CAT 3406			
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Total Thrust:         20.1 st         18.2 mt	Driven by:	600KW ELECTRIC MOTORS					
	Total Thrust:		20.1 st	18.2 mt			

#### **Performance\***

Fuel Consumption Vs Speed							
Maximum:	27.1 m³/day (300 gph) @ 13 knots						
Cruising:	20.7 m	n³/day (230 gph) @ 11 knots					
Economical:	15 m	n³/day (170 gph) @ 10 knots					
Standby:	1.3 n	n³/day (14.3 gph) @ 0 knots					
Bollard Pull	140 st	120 mt					
Transfer Rates							
Fuel Oil:	440 gpm @ 230 ft	100 m³/h @ 71 m					
Potable Water:	660 gpm @ 230 ft	150 m³/h @ 71 m					
Drill/Ballast Water:	660 gpm @ 230 ft	150 m³/h @ 71 m					
Bulk:	27.3 cfm @ 190 ft	46.3 m³/h @ 57 m					
Liquid Mud:	330 gpm @ 600 ft	75 m³/h @ 180 m					
Brine:	330 gpm @ 600 ft	75 m³/h @ 180 m					

#### **Tow/Anchor Handling**

Winch:	Double Drum Winch (320T Brake)
Model:	Hydrakraft/Odim 250T Waterfall
Line Pull:	250 mt
Tow/AH Wire:	1,500 m / 1,500 m of 71 mm
Pennant Reels (2):	1,500 m of 71 mm
Shark Jaw:	2 X 300 T SWL
Tow Pins:	2 X 160 T SWL
Chain Lockers (1):	2,400 m of 76mm chain
Chain Handler:	1X76MM + 1X84MM
Stern Roller:	RRM SINGLE DRUM (2 X 5.5 M); 400 mt SWL
Misc. Tow Equipment:	1xSpare Store Reel 1000m x 76mm; 1x200 t Smit Towing Bracket

#### **Nav/Comms Equipment**

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

#### **Accommodations**

No. of Berths:	30
Cabins:	8x1-man, 3x2-man & 4x4-man
Certified to Carry:	30
Galley seating:	14
Hospital:	Yes

#### **Deck Equipment**

Anchors (2):	2100 KG
Anchor Chain:	440 m of 36 mm chain per side
Windlass:	10T Hydrakraft
Crane (1):	5 t @ 13 m
Capstans (2):	10 t HYDRAKRAFT
Tugger (2):	10 t HYDRAKRAFT

\*Approximate values assuming Ideal Conditions

# Further specifications



### Registration

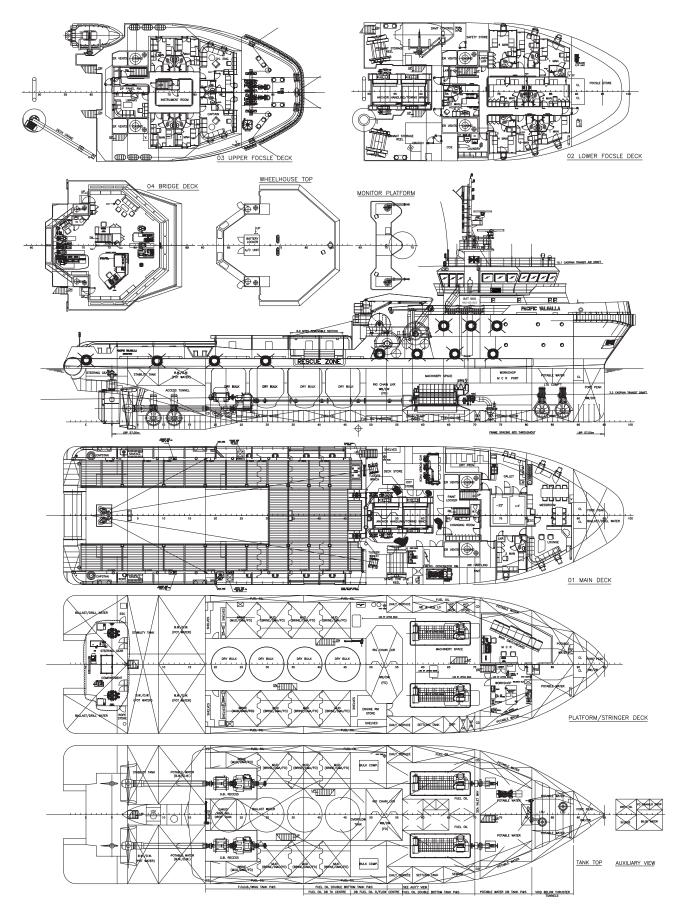
Flag: SINGAPORE	Hon	ne Port: SINGAPORE
Hull Number: 199		<b>IMO N<sup>o</sup>:</b> 9443542
Year Built: 2010		Call Sign: 9V7217
Builder:	P.T. Nanino	dah Mutiara Shipyard
Tonnage (ITC):	2147 GT	644 NT

### **Special Equipment**

FIFI-1
DP-2
3 x MRU; 2 x DGPS 1 x Laser-based
Yes
Yes
Maritime Partner MP660 Springer, 10 Persons
6x 440V 63A 3ph
MSD; HiPAP Ready; ROV Sockets: 2x500A, 440V, 3ph; 1x63A, 440V, 3ph; 1x32A, 440V, 3ph

# General Arrangement (Current configuration may vary.)





# Capacity Table



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.
FOREPEAK TK	DW/WB	108.3				108.3								
DB TK 5 C	DW/WB	54.3				54.3								
UPPER DEEP TK 6 P	DW/WB	131.2				131.2								
UPPER DEEP TK 6 S	DW/WB	131.2				131.2								
STAB TK 1	DW/WB	173.1				173.1								
AFT PEAK P	DW/WB	68.7				68.7								
AFT PEAK S	DW/WB	68.7				68.7								
RIG CHAIN LKR P/S	DW/WB/FO	195.6		195.6		195.6								
DB/WING TK 1 PS	SHIP'S FW	55.3					55.3							
DB/WING TK 1 SB	SHIP'S FW	76.0					76.0							
DB/WING TK 2 PS	SHIP'S FW	86.5					86.5							
DB/WING TK 2 SB	SHIP'S FW	86.5					86.5							
LOWER DEEP TK 6 P	SHIP'S FW	76.4					76.4							
LOWER DEEP TK 6 S	SHIP'S FW	74.5					74.5							
DB/WING TK 3 PS	FO	128.6		128.6										
DB TK 3 SB	FO	74.7		74.7										
DB TK 4 PS	FO	42.9		42.9										
DB/WING TK 4 PS	FO	106.6		106.6										
DB/WING TK 4 SB	FO	106.6		106.6										
DB/WING TK 5 PS	FO	103.7		103.7										
DB/WING TK 5 SB	FO	103.7		103.7										
FO DAY TK PS	FO	35.0		35.0										
FO DAY TK SB	FO	35.0		35.0										
FO SETTLING TK SB	FO	41.0		41.0										
MUD TK 1 PS	LM/FO	77.4		77.4						77.4				
MUD TK 1 SB	LM/FO	77.4		77.4						77.4				
MUD TK 2 PS	LM/FO	77.4		77.4						77.4				
MUD TK 2 SB	LM/FO	77.4		77.4						77.4				
MUD TK 3 PS	LM/FO	77.4		77.4						77.4				
MUD TK 3 SB	LM/FO	77.4		77.4						77.4				
BRINE TK 1 PS	BR	63.8							63.8					
BRINE TK 1 SB	BR	60.8							60.8					
CEM TANK 1	DRY BULK	46.2			46.2									
CEM TANK 2	DRY BULK	46.2			46.2									
CEM TANK 3	DRY BULK	46.2			46.2									
CEM TANK 4	DRY BULK	46.2			46.2									
ME & GEN LO TK	LO	12.8										12.8		
THR LO STORES	LO	4.4										4.4		
DISPERSANT TK	DISP.	9.6												9.6
19 FOAM TK	FOAM	4.6											4.6	
		/olume [m³]	0.0	1,437.8	184.8	931.1	455.1	0.0	124.6	464.6	0.0	17.2	4.6	9.6
	Spec Sheet Total V	olume [m³]	0.0	1,131.3	184.8	931.1	455.1	0.0	124.6	464.6	0.0	17.2	4.6	9.6

<sup>\*</sup>Capacities shown are for lead vessel. Actual capacities may vary slightly.

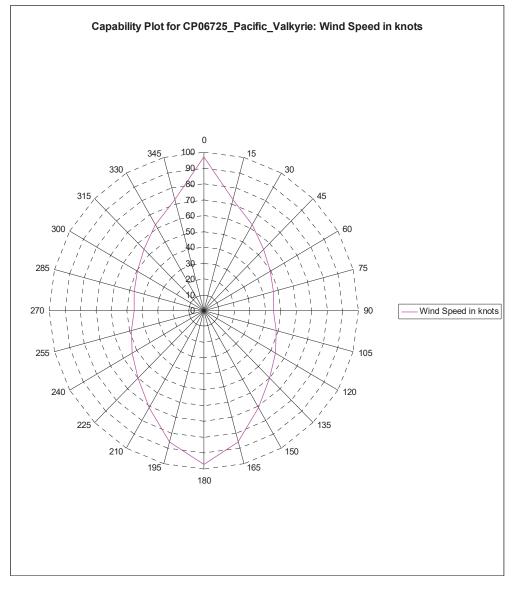
<sup>\*</sup>Capacities shown in RED are excluded from the total volume.

<sup>\*</sup>Capacities shown in BLUE are included in another Tank's Capacity.

<sup>\*</sup>Capacities shown in GREEN are counted for multiple Tank Capacities.

# DP Capability Plot

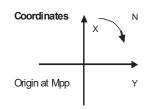




Wind Angle is stepped from 0 to 360 deg. Wave Angle is stepped from 0 to 360 deg. Current Angle is stepped from 0 to 360 deg. Wind Speed is Set Automatically.

Wave Height is Derived from Wind Speed.

Current Speed is 1.5 knots.



#### Weather Direction

Wind Current at Waves







