PACIFIC LIBERTY

IMT 997 PSV

Vessel Characteristics

Length, Overall:	319.2 ft	97.3 m
Beam:	65.6 ft	20 m
Depth:	29.5 ft	9 m
Maximum Draft:	22.3 ft	6.8 m
Light Draft:	11.2 ft	3.4 m
Freeboard:	7.2 ft	2.2 m
Displacement:	9,180 lt	9,330 mt
Deadweight:	5,180 lt	5,260 mt
Clear Deck Space:	187 x 52 ft	57 x 16 m
Clear Deck Area:	9,820 ft²	910 m²
Deck Strength FWD:	1,020 lb/ft²	5 t/m²
Deck Strength AFT:	2,050 lb/ft²	10 t/m²
Class Notations:	DNV: +1A1, Fire fighter(I), Offshore service vessel(Supply), Clean, DYNPOS(AUTR), E0, SF, SPS, PMS(M), Clean, DDV(PMS)	

Capacities

Deck Cargo:	3,300 lt	3,350 t
Fuel Oil:	217,000 gal	820 m³
Potable Water:	47,000 gal	180 m³
Fresh Water:	136,000 gal	520 m³
Drill/Ballast Water:	404,000 gal	1,530 m³
Bulk Tanks (5 tanks):	12,000 ft³	340 m³
Liquid Mud (2.5 SG*): *Max Structural Specific Gravity	11,300 bbl	1,800 m³
Brine:	6,500 bbl	1,030 m³
Oil Dispersant:	4,010 gal	15.2 m³

TIDEWATER

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Pg.2 Further Specifications
Pg.3 General Arrangement
Pg.4 Capacity Table
Pg.5 DP Capability Plot

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Further specifications

Machinery

Diesel Electric Vessel			
Propulsive/Total HP:			6,700 / 10,600
Z-Drives:			Yes
Propellers (2):			GE ENERGY INOVELIS POD 2500KW FP
Kort Nozzles:			2
Primary Generators (4):	1,900 kw	690 v	60 hz
Driven by:			MAN 6L27/38
Emergency Generators (1):	340 kw	440 v	60 hz
Driven by:			MAN D2876 LE201
Bow Thruster (3):			BRUNVOLL FU-80-LTC-2250
Driven by:			965KW ELECTRIC MOTORS
Total Thrust:		48.5 st	44 mt

Deck Equipment

Anchors (2):	3040 KG HIGH HOLDING POWER
Anchor Chain:	330 m of 50 mm chain per side
Windlass:	2 x RRM Winch/Windlass
Crane (1):	5 t @ 15 m
Capstans (2):	10 t RRM
Tugger (2):	10 t RRM

Accommodations

No. of Berths:	37
Cabins:	15x1-man, 3x2-man & 4x4-man
Certified to Carry:	37
Galley seating:	30
Hospital:	Yes

Registration

Flag: ISLE OF MAN		**Home Port:** DOUGLAS
Hull Number: 10012		**IMO N^{O}:** 9648398
Year Built: 2015		**Call Sign:** MRRW9
Builder:		Japan Marine United Corporation
Tonnage (ITC):	5179 GT	1554 NT

Performance*

Fuel Consumption Vs Speed		
Maximum:		24 m³/day (260 gph) @ 14 knots
Cruising:		12.2 m³/day (130 gph) @ 12 knots
Economical:		8.5 m³/day (93.6 gph) @ 8 knots
Standby:		2.5 m³/day (27.5 gph) @ 0 knots
Transfer Rates		
Fuel Oil:	660 gpm @ 300 ft	150 m³/h @ 92 m
Fresh Water:	660 gpm @ 300 ft	150 m³/h @ 92 m
Drill/Ballast Water:	660 gpm @ 300 ft	150 m³/h @ 92 m
Bulk:	40 cfm @ 190 ft	68 m³/h @ 57 m
Liquid Mud:	440 gpm @600 ft	100 m³/h @ 183 m

Nav/Comms Equipment

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

Special Equipment

Firefighting:	FIFI-1
Dynamic Positioning:	DP-2
Ref. Systems:	3 x MRU; 2 x DGPS 1 x Microwave-based; 1 x Laser-based
Mud Circulation System:	Yes
Rescue Zone:	Yes
Rescue Boat:	Maritime Partner MP660 Springer, 10 Persons
SPS Compliant:	Yes
Reefer Sockets:	4x 440V 32A, 4x 220V 63A
Misc:	2x38P Davit Launched Lifeboats; HiPAP Ready; MSD

*Approximate values assuming Ideal Conditions

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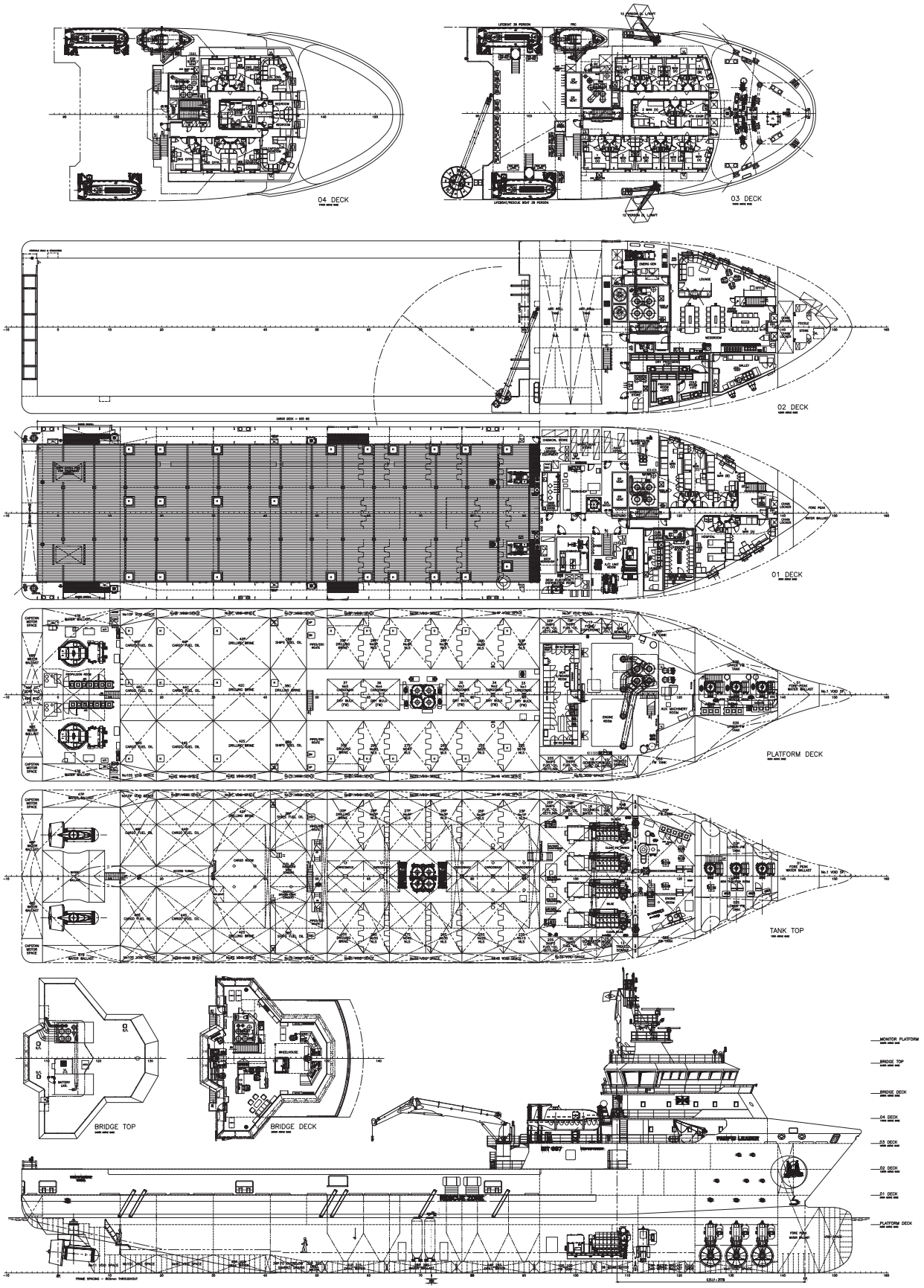
General Arrangement (Current configuration may vary.)



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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.
01 FP WATER BALLAST	DW/WB	174.0				174.0								
04P WATER BALLAST DB	DW/WB	57.4				57.4								
04S WATER BALLAST DB	DW/WB	60.2				60.2								
24P DRILL WATER DB	DW	63.0				63.0								
24S DRILL WATER DB	DW	63.0				63.0								
28P WATER BALLAST DB	DW/WB	58.2				58.2								
28S WATER BALLAST DB	DW/WB	58.2				58.2								
31P DRILL WATER DB	DW	49.6				49.6								
31S DRILL WATER DB	DW	49.6				49.6								
32P DRILL WATER DB	DW	30.5				30.5								
32S DRILL WATER DB	DW	30.2				30.2								
40P DRILL WATER DB	DW	49.1				49.1								
40S DRILL WATER DB	DW	47.9				47.9								
43P WATER BALLAST DB	DW/WB	44.8				44.8								
43S WATER BALLAST DB	DW/WB	44.8				44.8								
45P WATER BALLAST DB	DW/WB	27.2				27.2								
45S WATER BALLAST DB	DW/WB	27.2				27.2								
47P WATER BALLAST WG	DW/WB	42.2				42.2								
47S WATER BALLAST WG	DW/WB	42.2				42.2								
47C WATER BALLAST DB	DW/WB	51.1				51.1								
21 No1 ANTI-ROLL TANK	DW/WB	190.5				190.5								
22 No2 ANTI-ROLL TANK	DW/WB	190.5				190.5								
48P WATER BALLAST AP	DW/WB	38.7				38.7								
48S WATER BALLAST AP	DW/WB	38.7				38.7								
02P Lower FW Tank	FW	66.5						66.5						
02S Lower FW Tank	FW	66.5						66.5						
03P Upper FW Tank	SHIP'S FW	88.9					88.9							
03S Upper FW Tank	SHIP'S FW	88.9					88.9							
05S FW Tank	FW	146.4						146.4						
05P FW Tank	FW	146.4						146.4						
10P FW DB Tank	FW	45.2						45.2						
10S FW DB Tank	FW	45.2						45.2						
19P SHIPS FO DS	FO	32.6		32.6										
19S SHIPS FO DS	FO	32.6		32.6										
19P SHIPS FO SETTLING TK	FO	34.2		34.2										
19S SHIPS FO SETTLING TK	FO	34.2		34.2										
38P SHIPS FO TK	FO	180.3		180.3										
38S SHIPS FO TK	FO	180.3		180.3										
44P CARGO FO TK	FO	221.6		221.6										
44S CARGO FO TK	FO	221.6		221.6										
44C CARGO FO TK	FO	110.6		110.6										
46P CARGO FO TK	FO	98.3		98.3										
46S CARGO FO TK	FO	98.3		98.3										
46C CARGO FO TK	FO	71.0		71.0										
23P NO1P NLS	LM	182.5								182.5				
23S NO1S NLS	LM	182.5								182.5				
25P NO2P NLS	LM	221.7								221.7				
25S NO2S NLS	LM	221.7								221.7				
26P NO3P NLS	LM	156.5								156.5				
26S NO3S NLS	LM	156.5								156.5				
27P NO4P NLS	LM	208.6								208.6				
27S NO4S NLS	LM	208.6								208.6				
29P NO5P NLS	LM	130.4								130.4				
29S NO5S NLS	LM	130.4								130.4				
30P DRILLING BRINE	BRINE	164.7							164.7					
30S DRILLING BRINE	BRINE	169.5							169.5					
38C DRILLING BRINE	BRINE	74.4							74.4					
42P DRILLING BRINE	BRINE	253.8							253.8					
42S DRILLING BRINE	BRINE	253.8							253.8					
42C DRILLING BRINE	BRINE	117.8							117.8					
33 CARGOMAXX DRY BULK	DRY BULK	64.0			64.0									
34 CARGOMAXX DRY BULK	DRY BULK	64.0			64.0									
35 CARGOMAXX DRY BULK	DRY BULK	64.0			64.0									
36 CARGOMAXX DRY BULK	DRY BULK	74.5			74.5									
37 CARGOMAXX DRY BULK	DRY BULK	74.5			74.5									
14 THRUSTER OIL	LO	7.1										7.1		
18 GENERATOR LUBE OIL	LO	29.4										29.4		
49 POD LO TANK	LO	6.6										6.6		
17 DISPERSANT	DISP.	15.2												15.2
Total Volume [m^3]			0.0	1,315.6	340.8	1,528.5	177.8	516.3	1,033.9	1,799.5	0.0	43.1	0.0	15.2
Spec Sheet Total Volume [m^3]			0.0	821.4	340.8	1,528.5	177.8	516.3	1,033.9	1,799.5	0.0	43.1	0.0	15.2

*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.

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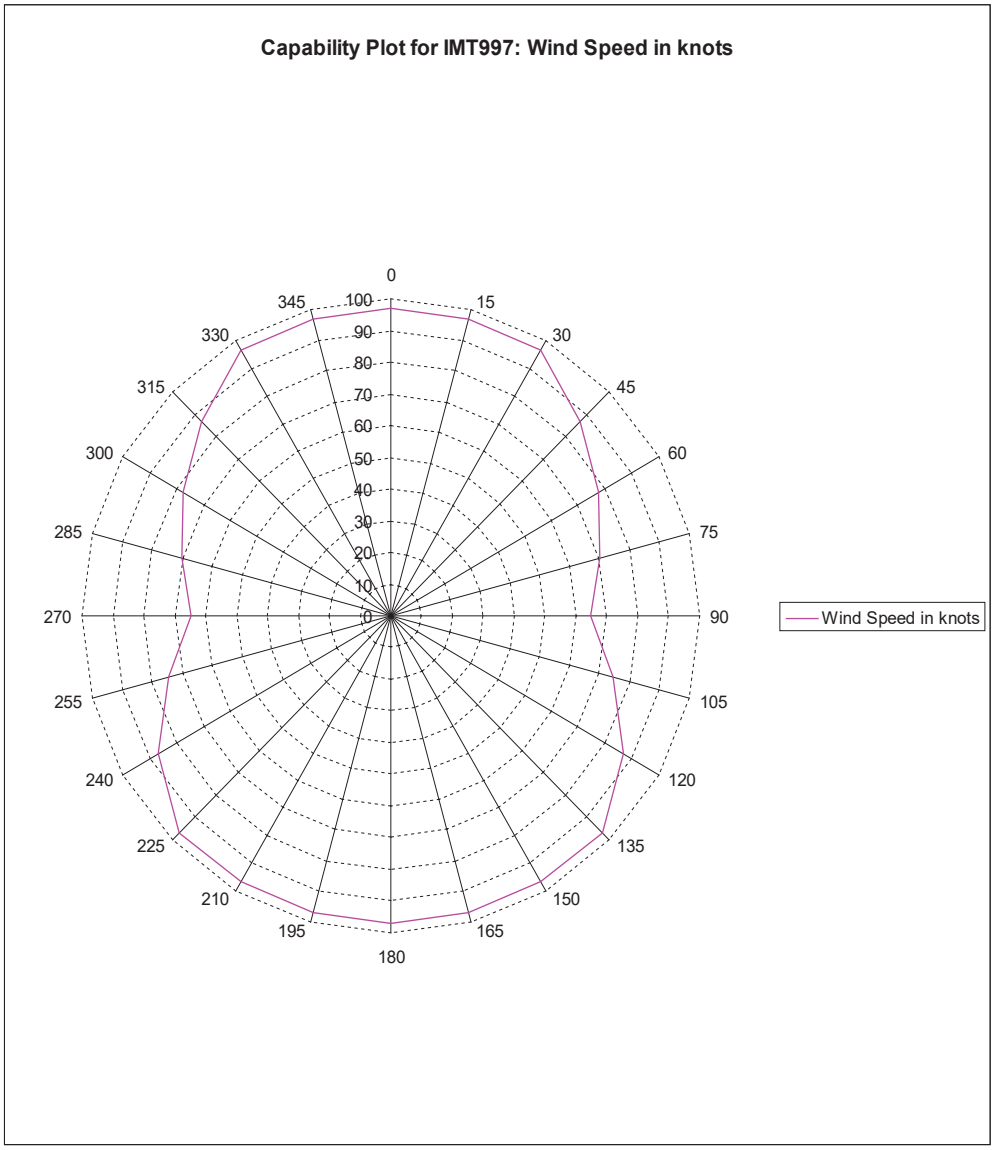
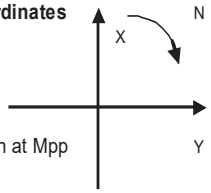
DP Capability Plot



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.

Coordinates



Weather Direction

Wind — 0 degrees
Current — at
Waves — 90 degrees

Ship Direction

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