



## ALLIANZ INSTALLER

### 400 MAN ACCOMMODATION WORK BARGE

#### MAIN FEATURES

1. Deepwater 8-point mooring system.
2. Offshore crane - 200t capable of Subsea lifting
3. Helideck with 12.8 t capability and full CAP 437 certified.
4. Free Deck Area - 1400 m<sup>2</sup>
5. Accommodation - 400 man
6. Construction Workshop - 2

#### GENERAL INFORMATION

Vessel Name	Allianz Installer
Built	Boustead Penang Shipyard, Malaysia, September 2012
Flag	Saint Vincent and the Grenadines
Call Sign	J8B6111
Official No.	12584
IMO No.	9649342
Class Notation	ABS +A1, Accommodation Barge, Circle M

#### DECK CAPACITIES

Deck Load Capacity	1300 t
Deck Strength	12.5 t/ m <sup>2</sup>
Free Deck Area	1400 m <sup>2</sup>
Length x Width	41 x 28 m 15 x 17 m

#### DIMENSIONS

Length (LOA)	111.63 m
Beam	31.7 m
Summer Draft	4.5 m
Deadweight @ SummerDraft	7226.7 t
GT	12644
NT	3689
Length (Loadline)	107.17 m
Depth, main deck	7.31 m

#### MOORING EQUIPMENT

Mooring Winch	8 x 100 t at a rate of 0-10 m/min, Wire capacity 2000 m at 52 mm
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#### MACHINERY

Main Engines	4 x 750 ekW = 3000 ekW (4021 bHP) (930 KVA), 440V, 60 Hz
Emergency Generators	1 x 270 kW (335 kVA), 440v, 60 HZ, max. 1800 rpm

#### TANK CAPACITIES

Brine / Mud	643 m <sup>3</sup>
Drill / Ballast Water	3938 m <sup>3</sup>
Dry Bulk	213 m <sup>3</sup> (In 4 dedicated tanks)
Fresh Water	3691.5 m <sup>3</sup>
Fuel Dedicated	1150.5 m <sup>3</sup>
Fuel Total	1150.5 m <sup>3</sup>
Tank Capacities Detail	Refer to Tank Capacity Plan
Ship's Stores	Freezer (-25c) = 40m <sup>3</sup> Chiller (+4c) = 62 m <sup>3</sup> Dry Store (+12c) = 125m <sup>3</sup>

#### DECK EQUIPMENT

Capstans	4 x 10 t, 0-30 m/min
Tugger Winches	4 x 10 t, 0-18m/min
Tugger Winches AFT	2 x 10 t at 18m/min
Tugger Winches FWD	2 x 10 t at 18m/min
Main Crane	1 x Fixed boom AHC Crane SWL 200 t at max. radius 12.5 m - 20 m, 34.5 t at max. radius 68
Main Crane Auxiliary	1 x Fixed boom SWL 25 t at a max. radius of 71.6 m and min. radius of 13.8 m
Deck Auxiliary Crane	1 x Knuckle boom SWL 20 t at a 15 m radius 3.5t - 25m radius
Windlass	1 x Combined windlass and mooring winch. Cable nominal pull 15 t at 0-1 m/min Duty of cable drum 1 st layer nominal pull 10 t at 0-15 m/min

#### EXTERNAL FIRE FIGHTING

Capacity	2 x 1500 m <sup>3</sup> /hr
Monitors	2 x 1200 m <sup>3</sup> /hr
Throw Length	120 m
Throw Height	50 m above sea level
Foam Tank	600 ltr



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#### NAVIGATION EQUIPMENT

Main Radar	Furuno FAR-2137S Radar, S Band, 23.1"
Auxiliary Radar	Furuno FAR-2117 Radar, X Band, 23.1"
Magnetic Compass	Tokyo Keiki SH-Type
Echo Sounder	Furuno FE-700
GPS	Furuno GP-150
Communications	2 x Inmarsat C 1 x SSB 4 x VHF (Portable) 8 x SART (Including 6 for lifeboats)
Navtex Receiver	NX-700 A/B
Weather Fax	Furuno FAX-408
AIS	Furuno FA-150
VHF	2 x Furuno FM-8800D

#### DISCHARGE PUMPS

Fuel Oil	75 m3/hr at 7.0 bar
Base Oil	75 m3/hr at 7.0 bar
Sludge	1 x 10 m3/hr at 2.0 bar
Fresh Water	150 m3/hr at 7.0 bar
Drill Water	1 x 150 m3/hr at 7.0 bar
Drill / Ballast Water	1 x 150 m3/hr at 7.0 bar
Dry Bulk	2 x Screw Compressors Capacity 13 m3/min at 5.6 bar
Cargo Flow Meters	Fuel, FW
Hose Connections	Fuel - 3" TODO coupling with breakaway coupling connections Water - 4" Ballast water - 4" Mud - 5" Bulk - 5"

#### ACCOMMODATION

Person Capacity	400 Berths
	Deck 1 - 2 x 1man & 47 x 2man
	Deck 2 - 18 x 1man & 47 x 2man
	Deck 3 - 65 x 2man
	Deck 4 - 52 x 1man & 5 x 2man
Offices	2 x Meeting Rooms 5 x Offices
Hospital	Yes (2 berth)

#### ELECTRONICS

Main Radar	Furuno
Gyro Compass	Furuno
Magnetic Compass	Furuno
Echo Sounder	Furuno
Speed Log	Furuno
VHF	Furuno

#### RESQUE BOAT

1 x SOLAS approved FRC, 15 men capacity, c/w davit for launch/ recovery.

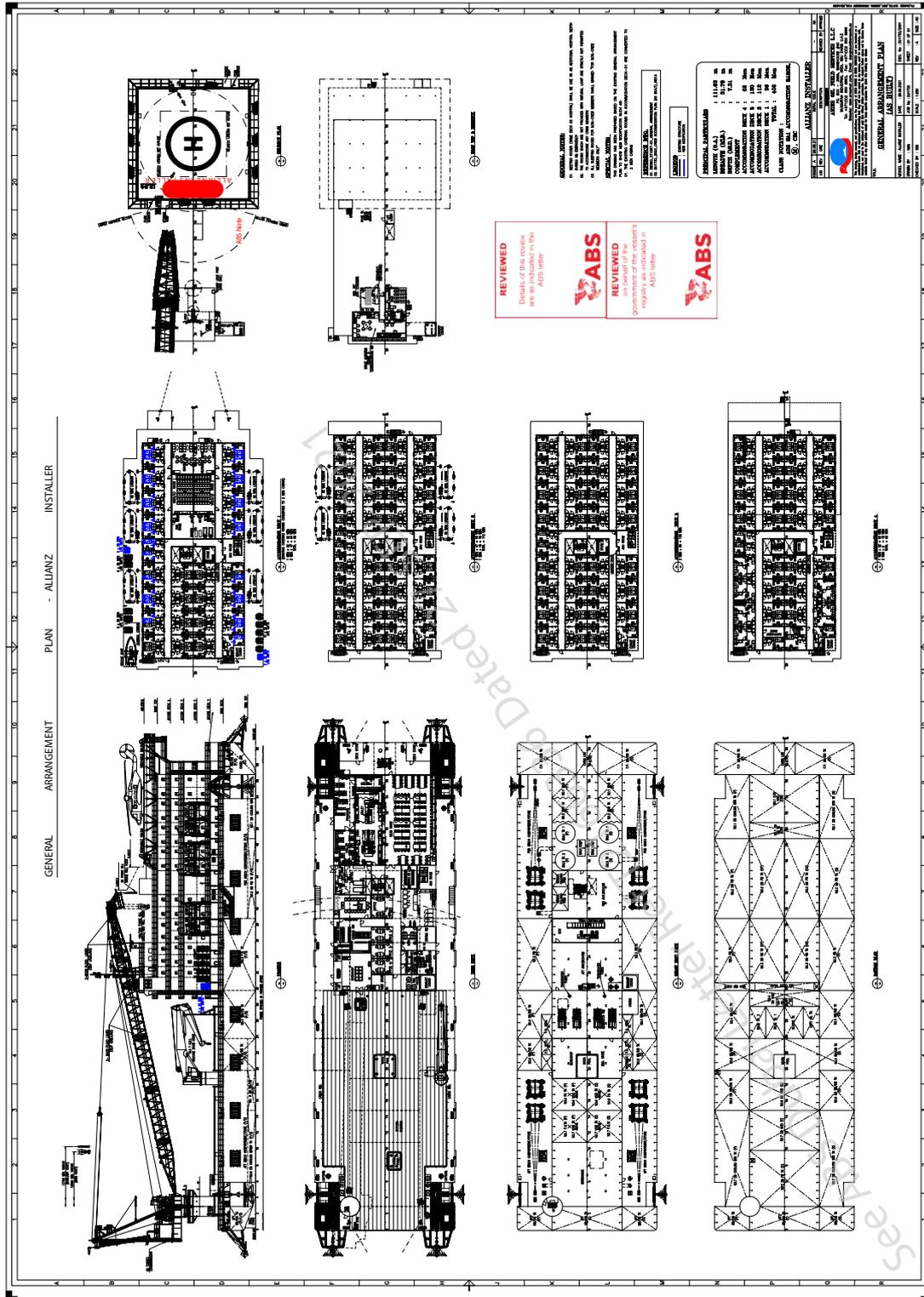
#### MISCELLANEOUS

1. Heli-Deck - Design Helicopter (rated for Sikorsky S92); Structural Design (UK CAA CAP 437).
2. Gangways - Boat Landings (Optional as required)
3. Moon Pool - 5.5 m x 5.5 m, depth 7.5 m
4. Internet Cafe, Messroom for approx. 160 people, Gymnasium, Recreation Room, Lounge, 2 Cinemas.
5. Deck power supplies: 1 x 1000A x 440v x 3ph, 1 x 63A x 440v x 3ph & 1 x 32A x 220v x 1ph
6. Fresh Water Production 3 x 2 m<sup>3</sup>/hr



# ALLIANZ INSTALLER

## 400 MAN ACCOMMODATION WORK BARGE - GA PLAN

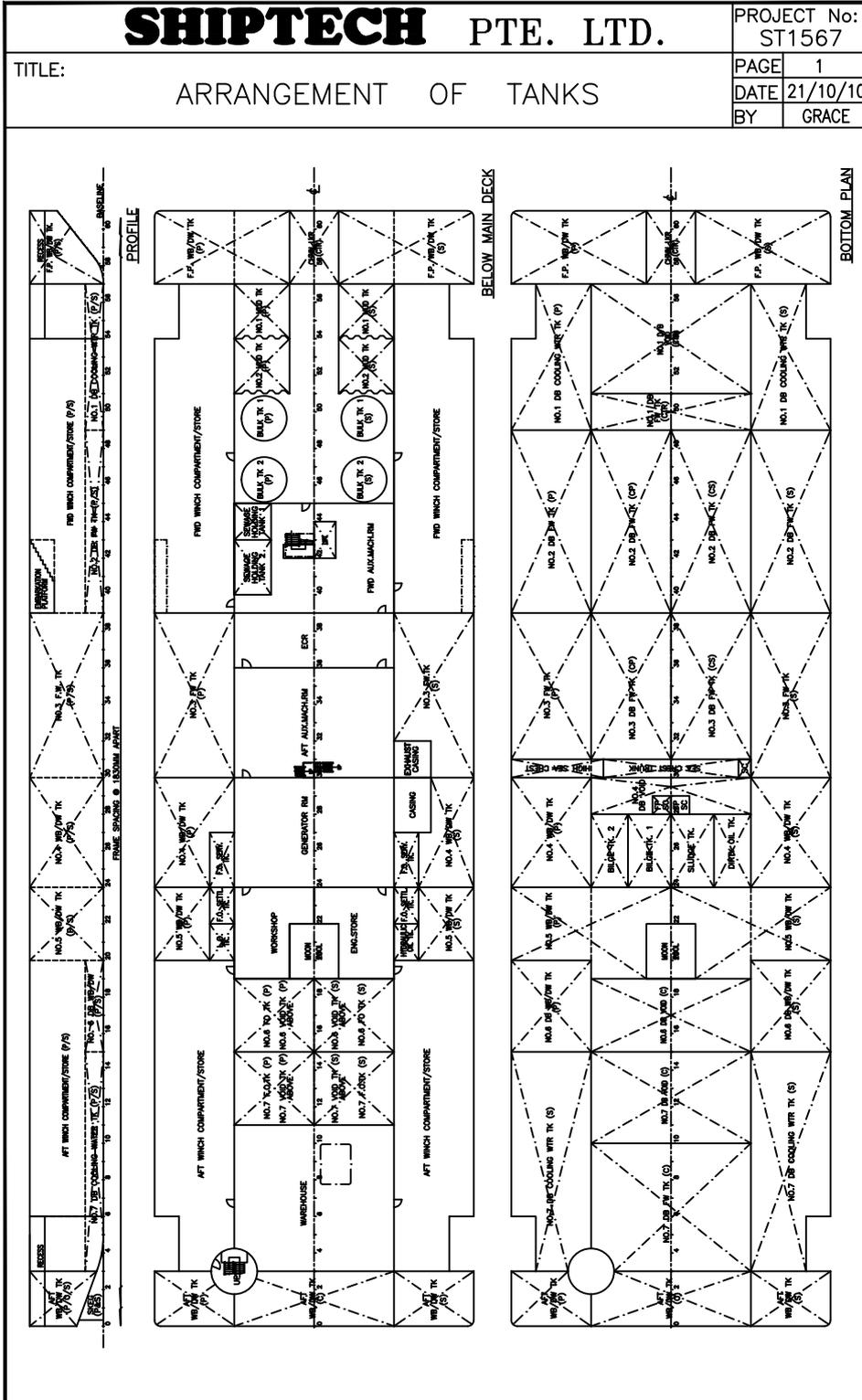


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# ALLIANZ INSTALLER

400 MAN ACCOMMODATION WORK BARGE - TANK PLAN



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## ALLIANZ INSTALLER

### 400 MAN ACCOMMODATION WORK BARGE - TANK CAPACITY

#### CAPACITY PLAN

Fuel Oil	Location	Capacities			L.C.G. From A.P. (M)	T.C.G. Off C.L. (M)	V.C.G. Above B.L. (M)	F.S.M. (T x M)
		100% (M <sup>3</sup> )	98% (M <sup>3</sup> )	98% (Tonnes)				
NO6 FO TK [P]	Fr 15 - 19	244.16	239.28	208.17	31.110f	3.965p	3.946	259.33
NO6 FO TK [S]	Fr 15 - 19	244.16	239.28	208.17	31.110f	3.965s	3.946	259.33
NO7 FO TK [P]	Fr 11 - 15	244.16	239.28	208.17	23.790f	3.965p	3.946	259.33
NO7 FO TK [S]	Fr 11 - 15	244.16	239.28	208.17	23.790f	3.965s	3.946	259.33
FO SETTLING TK [P]	Fr 22 - 24	34.78	34.09	29.65	42.090f	9.117p	4.101	3.78
FO SETTLING TK [S]	Fr 22 - 24	34.78	34.09	29.65	42.090f	9.117s	4.101	3.78
FO SERVICE TK [P]	Fr 24 - 27	52.17	51.13	44.48	46.665f	9.117p	4.101	5.67
FO SERVICE TK [S]	Fr 24 - 27	52.17	51.13	44.48	46.665f	9.117s	4.101	5.67
<b>Total</b>		<b>1150.55</b>	<b>1127.54</b>	<b>980.96</b>				

Fresh Water	Location	Capacities			L.C.G. From A.P. (M)	T.C.G. Off C.L. (M)	V.C.G. Above B.L. (M)	F.S.M. (T x M)
		100% (M <sup>3</sup> )	98% (M <sup>3</sup> )	100% (Tonnes)				
NO1 DB FW TK [C]	Fr 49 - 51	102.38	100.33	102.38	91.500f	0.000	0.900	1192.30
NO2 DB FW TK [CP]	Fr 39 - 49	255.96	250.84	255.96	80.520f	3.965p	0.900	745.18
NO2 DB FW TK [CS]	Fr 39 - 49	255.96	250.84	255.96	80.520f	3.965s	0.900	745.18
NO2 DB FW TK [P]	Fr 39 - 49	255.65	250.54	255.65	80.520f	11.890p	0.900	742.52
NO2 DB FW TK [S]	Fr 39 - 49	255.65	250.54	255.65	80.520f	11.890s	0.900	742.52
NO3 DB FW TK [CP]	Fr 31 - 39	204.77	200.67	204.77	64.050f	3.965p	0.900	596.15
NO3 DB FW TK [CS]	Fr 31 - 39	204.77	200.67	204.77	64.050f	3.965s	0.900	596.15
NO3 FW TK [P]	Fr 30 - 39	908.89	890.71	908.89	63.341f	11.890p	3.733	668.28
NO3 FW TK [S]	Fr 30 - 39	910.49	892.28	910.49	63.304f	11.946s	3.583	668.26
NO7 DB FW TK [C]	Fr 3 - 10	336.94	330.20	336.94	12.182f	0.159s	0.925	3911.57
<b>Total</b>		<b>3691.46</b>	<b>3617.63</b>	<b>3691.46</b>				

Ballast Water / (Drill Water)	Location	Capacities			L.C.G. From A.P. (M)	T.C.G. Off C.L. (M)	V.C.G. Above B.L. (M)	F.S.M. (T x M)
		100% (M <sup>3</sup> )	98% (M <sup>3</sup> )	100% (Tonnes)				
FP SWB /DW TK [P]	Fr 57 -61	463.60	454.33	475.19	107.335f	8.634p	4.123	1473.88
FP SWB /DW TK [S]	Fr 57 -61	463.60	454.33	475.19	107.335f	8.634s	4.123	1473.88
NO4 SWB /DW TK [P]	Fr 24 - 30	554.82	543.72	568.69	49.747f	12.230p	3.525	456.60
NO4 SWB /DW TK [S]	Fr 24 - 30	518.85	508.47	531.82	49.580f	12.401s	3.326	456.60
NO5 SWB /DW TK [P]	Fr 19 - 24	428.82	420.24	439.54	40.138f	10.699p	2.761	2124.14
NO5 SWB /DW TK [S]	Fr 19 - 24	428.82	420.24	439.54	40.138f	10.699s	2.761	2124.14
NO6 DB SWB /DW TK [P]	Fr 15 - 20	126.51	123.98	129.67	31.982f	11.855p	0.903	380.54
NO6 DB SWB /DW TK [S]	Fr 15 - 20	127.82	125.27	131.02	32.025f	11.890s	0.900	380.54
AFT SWB /DW TK [P]	Fr 0 - 3	171.13	167.71	175.41	2.710f	12.010p	3.954	185.04
AFT SWB /DW TK [S]	Fr 0 - 3	196.46	192.53	201.37	2.946f	11.609s	3.980	227.07
AFT SWB /DW TK [C]	Fr 0 - 3	457.17	448.03	468.60	2.815f	0.385s	4.470	1622.21
<b>Total</b>		<b>3937.60</b>	<b>3858.85</b>	<b>4036.04</b>				



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### 400 MAN ACCOMMODATION WORK BARGE - TANK CAPACITY

#### CAPACITY PLAN

Cooling Water	Location	Capacities			L.C.G. From A.P. (M)	T.C.G. Off C.L. (M)	V.C.G. Above B.L. (M)	F.S.M. (T x M)
		100% (M <sup>3</sup> )	98% (M <sup>3</sup> )	100% (Tonnes)				
NO1 DB CW TK [P]	Fr 49 - 57	181.00	177.38	181.00	96.395f	11.533p	0.900	476.26
NO1 DB CW TK [S]	Fr 49 - 57	181.00	177.38	181.00	96.395f	11.533s	0.900	476.26
NO7 DB CW TK [P]	Fr 3 - 15	272.85	267.39	272.85	17.560f	11.737p	0.908	744.97
NO7 DB CW TK [S]	Fr 3 - 15	278.48	272.91	278.48	17.337f	11.679s	0.912	777.89
<b>Total</b>		<b>913.33</b>	<b>895.06</b>	<b>913.33</b>				

Mud	Location	Capacities			L.C.G. From A.P. (M)	T.C.G. Off C.L. (M)	V.C.G. Above B.L. (M)	F.S.M. (T x M)
		100% (M <sup>3</sup> )	98% (M <sup>3</sup> )	98% (Tonnes)				
NO1 MUD TK [P]	Fr 54 - 57	158.72	155.55	388.87	101.631f	5.193p	4.555	181.85
NO1 MUD TK [S]	Fr 54 - 57	158.72	155.55	388.87	101.631f	5.193s	4.555	181.85
NO2 MUD TK [P]	Fr 51 - 54	162.75	159.49	398.73	96.211f	5.185p	4.555	185.46
NO2 MUD TK [S]	Fr 51 - 54	162.75	159.49	398.73	96.211f	5.185s	4.555	185.46
<b>Total</b>		<b>642.94</b>	<b>630.09</b>	<b>1575.21</b>				

Dry Bulk	Location	Capacities			L.C.G. From A.P. (M)	T.C.G. Off C.L. (M)	V.C.G. Above B.L. (M)	F.S.M. (T x M)
		100% (M <sup>3</sup> )	98% (M <sup>3</sup> )	98% (Tonnes)				
NO1 BULK TK [P]	Fr 45 - 47	53.32	52.26	112.88	90.857f	4.960p	4.060	44.13
NO1 BULK TK [S]	Fr 45 - 47	53.32	52.26	112.88	90.857f	4.960s	4.060	44.13
NO2 BULK TK [P]	Fr 49 - 51	53.32	52.26	112.88	84.729f	4.960p	4.060	44.13
NO2 BULK TK [S]	Fr 49 - 51	53.32	52.26	112.88	84.729f	4.960s	4.060	44.13
<b>Total</b>		<b>213.30</b>	<b>209.03</b>	<b>451.51</b>				

Miscellaneous	Location	Capacities			L.C.G. From A.P. (M)	T.C.G. Off C.L. (M)	V.C.G. Above B.L. (M)	F.S.M. (T x M)
		100% (M <sup>3</sup> )	98% (M <sup>3</sup> )	98% (Tonnes)				
LUBE OIL TK [P]	Fr 20 - 22	34.78	34.09	31.50	38.430f	9.117p	4.101	4.01
HYD OIL TK [S]	Fr 20 - 22	34.78	34.09	31.50	38.430f	9.117s	4.101	4.01
DB BILGE TK 1 [P]	Fr 24 - 28	55.13	54.03	54.03	47.580f	2.135p	0.900	46.54
DB BILGE TK 2 [P]	Fr 24 - 28	47.25	46.31	46.31	47.580f	6.100p	0.900	29.3
DB SLUDGE TK [S]	Fr 24 - 28	55.13	54.02	47.00	47.580f	2.135s	0.900	40.49
DB DIRTY OIL TK [S]	Fr 24 - 28	47.25	46.31	40.29	47.580f	6.100s	0.900	25.49
SEWAGE HOLDING TK1 [P]	Fr 43 - 45	39.97	39.17	40.15	80.520f	6.100p	4.570	15.02
SEWAGE HOLDING TK2 [P]	Fr 40 - 43	59.95	58.75	60.22	75.945f	6.100p	4.570	22.53

#### CAPACITY PLAN

**Notes:**

- 1) Free Surface Moment (F.S.M.) are given for Maximum values at even trim & heel condition.
- 2) L.C.G., T.C.G. & V.C.G. are taken at 100% Capacity.
- 3) Assumed Specific Gravity as:

Fuel Oil:	0.870	Dirty Oil:	0.870
Fresh Water:	1.000	Sludge:	0.870
Ballast Water:	1.025	Sewage:	1.025
Cooling Water:	1.000	Mud:	2.500
Lube Oil:	0.924	Bulk:	2.160
Bilge:	1.000	Drill Water:	1.000

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