

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having

*Peap - Bridge & Fell.*Port of Survey *Hamburg/Kiel*

(Type of Superstructures.)

Date of Survey *19. Feby. 1935*

Ship's Name

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

*"GADILA"**Dutch**8100**3.35.*Name of Surveyor *C. Priess*

Moulded Dimensions: Length

Breadth

Depth

*140.21**17.98**10.363*

Moulded displacement at moulded draught = 85 per cent. of moulded depth

17910 17550 tons

Coefficient of fineness for use with Tables

*0.79*Particulars of Classification *+ 100 A1**Petrol in Bulk. Contempt.*

Depth for Freeboard (D)

Depth correction

Round of Beam correction

Moulded depth ... *10.363*Stringer plate ... *20*

Sheathing on exposed deck

$$T \left(\frac{L-S}{L} \right) =$$

Depth for Freeboard (D) =

10.383

(a) Where D is greater than Table depth

$$(D - \text{Table depth}) R = 8.33(10.383 - 9.347) \times 30 = + 259$$

(b) Where D is less than Table depth (if allowed)

$$(\text{Table depth} - D) R =$$

If restricted by superstructures

Moulded Breadth (B)

$$\text{Standard Round of Beam} = \frac{B \times 12}{50} = 360$$

$$\text{Ship's Round of Beam} = 14 \times 356 = 4984$$

$$\text{Difference} = 4$$

$$\text{Restricted to} = 4$$

$$\text{Correction} = \frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{4}{4} \times 5912 = +1$$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	<i>28.35</i>	28.35	<i>2.5</i>		28.35
" overhang ...	<i>28.35</i>		<i>2.286</i>		
R.Q.D. enclosed ...			<i>+ sheathing</i>		
" overhang ...					
Bridge enclosed ...	<i>14.33</i>	14.33	<i>7.5</i>	$\times \frac{2.286}{2.290} =$	14.31
" overhang aft ...	<i>14.33</i>		<i>2.286</i>		
" overhang forward ...					
F'cle enclosed ...	<i>14.63</i>	14.63	<i>7.5</i>		14.63
" overhang ...			<i>+ sheathing</i>		
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" forward ...					
Total ...	57.31	57.31			57.29

Standard Height of Superstructure *2.290*R.Q.D. *✓*Deduction for complete superstructure *1067*

$$\text{Percentage covered } \frac{S}{L} = 40.88$$

$$\frac{S_1}{L} = 40.88$$

$$\frac{E}{L} = 40.86$$

Percentage from Table, Line A. *Tamher 31.86*
(corrected for absence of forecastle (if required))Percentage from Table, Line B.
(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

$$\text{Deduction} = 1067 \times 31.86 = -340$$

Sheathing fitted on poop & fore decks.

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	1422	1		1422	<i>56.1422</i>	1422	1		1422
$\frac{1}{2}$ L from A.P. ...	632	4		2528	<i>25.2635</i>	635	4		2540
$\frac{2}{3}$ L " ...	158	2		316	<i>6.20157</i>	157	2		314
Amidships ...	-	4		-	0	-	4		-
$\frac{2}{3}$ L from F.P. ...	316	2		632	<i>12.50317</i>	317	2		634
$\frac{1}{2}$ L " ...	1263	4		5052	<i>50.501283</i>	1283	4		5132
F.P. ...	2844	1		2844	<i>112.02845</i>	2845	1		2845
Total ...				12794					12887

$$\text{Correction} = \frac{\text{Difference between sums of products}}{18} \left(75 - \frac{S}{2L} \right) = \frac{93}{18} \left(75 - \frac{2044}{5456} \right) = -3$$

If limited on account of midship superstructure.

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft. *✓*

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

$$\text{Depth to Freeboard Deck} = 10.383$$

$$\text{Summer freeboard} = 2.050$$

$$\text{Moulded draught (d)} = 8.333$$

Deduction for Tropical freeboard and addition for

$$\text{Winter freeboard} = \frac{d}{4} \text{ inches} = 174$$

Addition for Winter North Atlantic Freeboard (if required) = $174 + 115 = 289$

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$$\Delta = 16662$$

Tons per inch immersion at summer load water line

$$T = 86.3$$

$$\text{Deduction} = \frac{\Delta}{40T} \text{ inches}$$

$$= 7.4$$

$$= 19 \text{ cm.}$$

TABULAR FREEBOARD corrected for Flush Deck (if required)

$$\text{Correction for coefficient} = \frac{79 + 68}{1.36} = \frac{147}{1.36} = 108$$

$$\frac{79 + 68}{1.36} = \frac{147}{1.36} = 108$$

$$\text{Depth Correction} = 259$$

$$\text{Deduction for superstructures} = 340$$

$$\text{Sheer correction} = 3$$

$$\text{Round of Beam correction} = 1$$

$$\text{Correction for Thickness of Deck amidships} = -$$

$$\text{Other corrections, scantlings, etc.} = -$$

$$\text{Summer Freeboard} = 2050$$

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, *Wood, Steel, Deck*:—Tropical Fresh Water Line above Centre of Disc ... *36* ... *169*Fresh Water Line " " ... *19* ... *186*Tropical Line " " ... *17* ... *188*Winter Line below " " ... *17* ... *222*Winter North Atlantic Line " " ... *29* ... *234*Tropical Fresh Water Freeboard ... *169*Fresh Water " " ... *186*Tropical " " ... *188*Winter " " ... *222*Winter North Atlantic " " ... *234*

RECEIVED JUN 1935

RECEIVED 9 MAR 1935

RECEIVED 18 MAR 1935

003046-003055-025412

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS						
Description of Hatchway	Hatchway to Forepeak on Fore-deck.	Hatchway to Hold on Fore-deck.	Hatchway to Oil-bunk on Upper-deck.	Hatchway to Poop-sp. on Poop-deck.		
Dimensions of Hatchway	760 x 760	2750 x 3080	1525 x 1145	1050 x 850		
COAMINGS						
Height above Deck	230-90-10	760	760	200-75-10		
Thickness	10	10	10			
Sides						
Ends						
Stiffeners						
Brackets, Stays						
HATCH BEAMS						
Number	28					
Spacing	10-48					
Scantling and Sketch						
Bearing Surface						
FORE AND AFTERS						
Number						
Spacing						
Unsupported Lengths						
Scantling* and Sketch						
Bearing Surface						
HATCH COVERS						
Material	Steel-plate	Steel-plate	Steel-plates	Steel-plates		
Thickness	12.5	12.5 stiffened	12.5 stiffened	12.5		
How fitted	Hinged w. Packing	Hinged w. Packing	Hinged w. Packing	Hinged w. Packing		
Bearing Surface						
Spacing of Cleats	8 hinged bolts	30 hinged bolts	14 hinged bolts	8 hinged bolts		
Number of Tarpaulins						
*Are wood fore and afters steel shod at all bearing surfaces? Are battens and wedges efficient and in good condition? Are tarpaulins in good condition and in accordance with rule requirements? Are lashings provided in accordance with rule requirements?						

Particulars of fiddle, funnel and ventilator coamings :-

Fiddle Top in height of Boat-deck.
 Motor casing top 480 mm above Boat-deck.
 Funnel and Ventilator coamings efficiently riveted to Deck.
 All openings fitted with steel hinged covers.

Particulars of Flush Bunker Scuttles :-

None.

Particulars of Companionways :-

All Companionways situated inside Superstructures.
 Pumproom houses strongly built of steel plates angles.
 Openings closed with steel hinged doors.

Particulars of Ventilators in exposed positions on freeboard and superstructure decks :-

No Ventilators in exposed position on Freeboard-deck.
 All Ventilators on Fore-deck = 915 x 10 mm.
 All Ventilators on Bridge-Poop = 760 x 8-10 "
 All efficiently riveted to deck and fitted with w.t. screw steel caps.

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks :-

All Air-pipes are of substantial construction.
 of Rule height and fitted with gauze and hinged steel covers.

Particulars of Gangway Cargo and Coaling Ports :-

None.

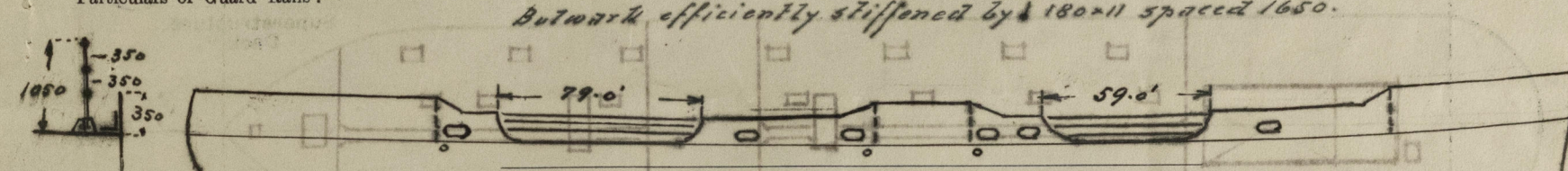
Particulars of Scuppers and Sanitary Discharge Pipes -

Forward well 3 Scuppers each side 200 x 90 mm above Deck.
 After well 4 " " " 150 dia " " " 200 x 90 " " " 150 dia " " "
 All sanitary discharge pipes fitted with storm valves.
 Overboard Scuppers from Poop space at inner ends also fitted with screw plugs.

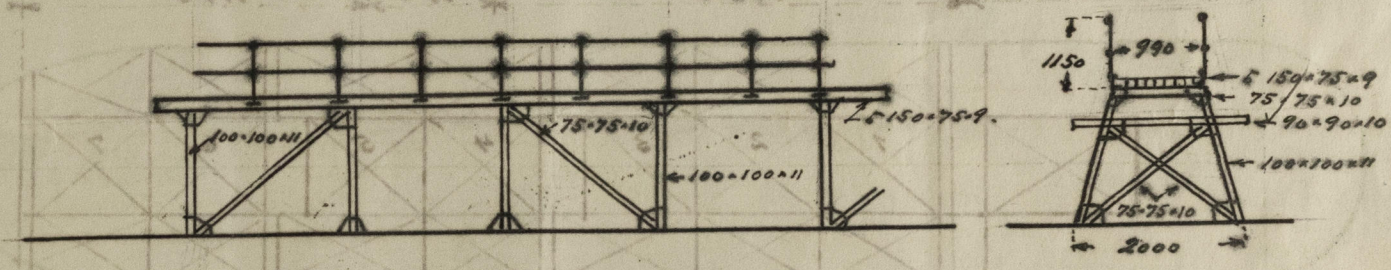
Particulars of Side Scuttles :-

No side Scuttles below Freeboard-deck.

Particulars of Guard Rails :-



Particulars of Gangways, Lifelines, etc. :-



Particulars of Freeing Arrangements.

	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well	158.0'	79.0'	40.5"	79.0' open Rail and 3 Freeing-ports 37x20"	Above 50% Rail.	
Forward Well	114.0'	55.0'	40.5"	59.0' open Rail and 3 Freeing-ports 37x20"		
State position of each freeing port (F. and A. position and height above deck edge) State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such. Additional area where sheer is less than standard.						

Particulars of Superstructures, Trunks, Casings, Deckhouses.

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	160-160-14	11	250-90-11 150-90-10 180-90-10	700-760	Brackets	2-1350 x 820	580	7.5'
Raised Quarter Deck Bulkhead								
Bridge, After Bulkhead	180-90-14.5	8	100-65-9	680-720	"	2-1300 x 950	590	7.5'
Bridge, Forward Bulkhead	180-90-14.5	11.5	230-90-12	680-720	"	1-1580 x 820	500	7.5'
Forecastle Bulkhead	610-9	7.5	100-65-9	710	"	1-1360 x 680	610	7.5'
Trunk, Aft Pumproom	480-10	10	100-65-9	550-640	"	1-1515 x 760	480	7.5'
Trunk, Forward Pumproom	480-10	10	100-65-9	550-640	"	1-1515 x 760	480	7.5'
Exposed Machinery Casings on Freeboard or Raised Quarter Decks								
Exposed Machinery Casings on Superstructure Decks								
Machinery Casings within Superstructures not fitted with Class I Closing Appliances								
Deckhouses on Flush Deck Ships								

Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead	Hinged steel w.t. doors fitted with Turnbuckles to be opened from both sides.
Raised Quarter Deck Bulkhead	%
Bridge, After Bulkhead	Tonnage openings closed by stiffened steel plates with deck bolts. 1 door starboard.
Bridge, Forward Bulkhead	One hinged steel door with Turnbuckles.
Forecastle Bulkhead	Two hinged steel door with Turnbuckles and 6 hinged Tank doors.
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	%
Exposed Machinery Casings on Superstructure Decks	%
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	%
Deckhouses on Flush Deck Ships	Pumproom houses, one hinged steel door each with Turnbuckles.

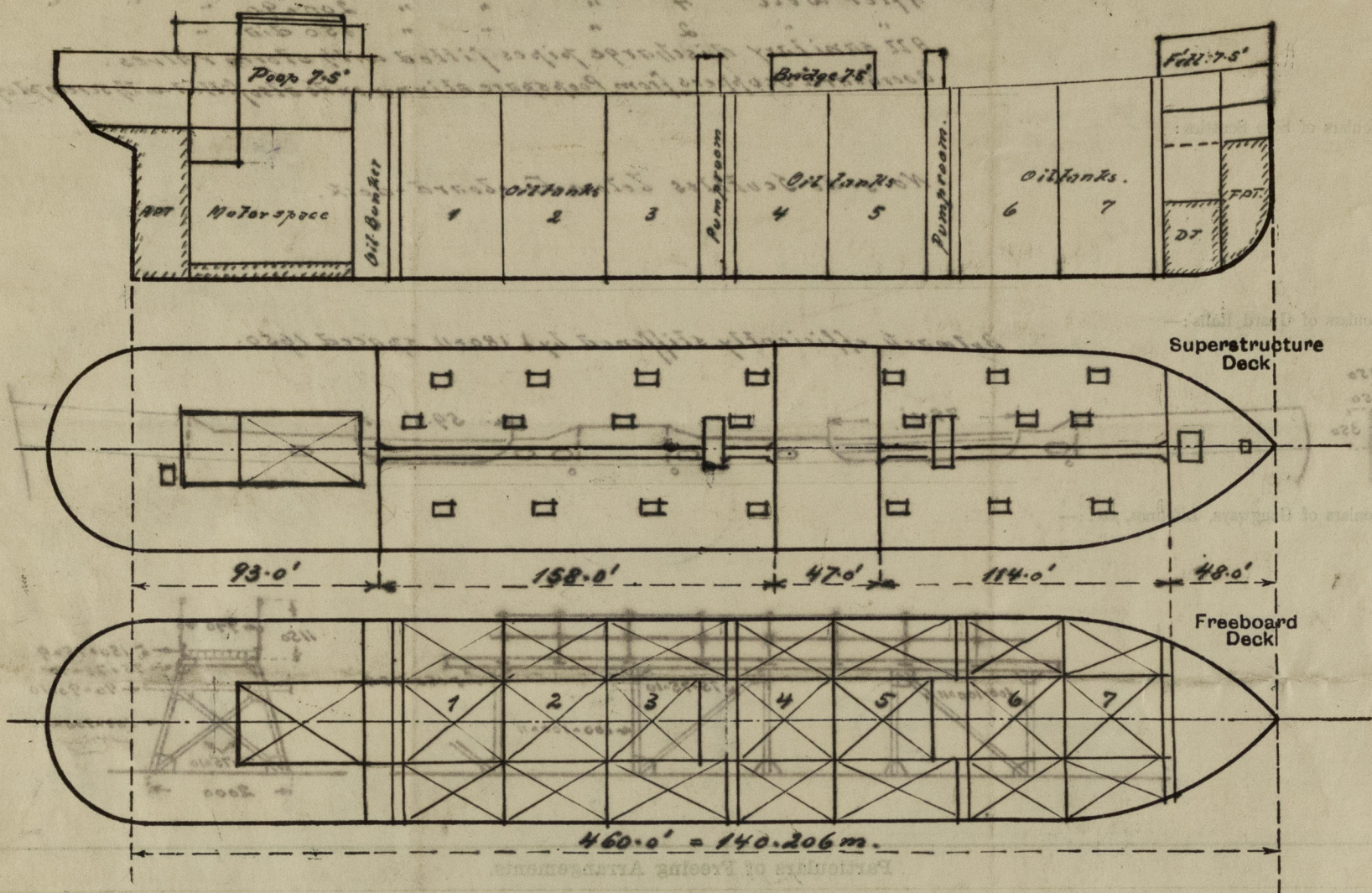
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Lloyd's Register

Foundation

0254 1/2

Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shown on the following sketches:-



State any special features in the construction of the ship:-

Tanker with two longitudinal Bulkheads in way of Cargo Tanks.
 Sides: Transverse Framing.
 Deck-Bottom: Longitudinal Framing.

Position	Length	Width	Area	Volume	Weight	Notes
1	93.0'	48.0'	4464.0	1000.0	1000.0	Motor-space
2	158.0'	48.0'	7584.0	1000.0	1000.0	Oil Tanks
3	47.0'	48.0'	2256.0	1000.0	1000.0	Pump-rooms
4	114.0'	48.0'	5472.0	1000.0	1000.0	Oil Tanks
5	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
6	114.0'	48.0'	5472.0	1000.0	1000.0	Oil Tanks
7	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
8	48.0'	48.0'	2304.0	1000.0	1000.0	Bridge
9	48.0'	48.0'	2304.0	1000.0	1000.0	Motor-space
10	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
11	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
12	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
13	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
14	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
15	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
16	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
17	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
18	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
19	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
20	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
21	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
22	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
23	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
24	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
25	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
26	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
27	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
28	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
29	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
30	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
31	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
32	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
33	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
34	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
35	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
36	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
37	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
38	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
39	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
40	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
41	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
42	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
43	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
44	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
45	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
46	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
47	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
48	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
49	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
50	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
51	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
52	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
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57	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
58	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
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65	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
66	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
67	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
68	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
69	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
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72	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
73	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
74	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
75	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
76	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
77	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
78	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
79	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
80	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
81	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
82	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
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84	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
85	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
86	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
87	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
88	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
89	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
90	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
91	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
92	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
93	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
94	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
95	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
96	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
97	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
98	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks
99	48.0'	48.0'	2304.0	1000.0	1000.0	Pump-rooms
100	48.0'	48.0'	2304.0	1000.0	1000.0	Oil Tanks

Builder's name and yard number *Hawaldtswerke Kiel AG. No 732.*

Names of sister ships *"Geneta" Deutsche Werft Hamburg No 156 and "Alexia" Bremer Vulkan Vegesack No 707.*

Owners *Anglo-Saxon Petroleum Corp Ltd London.*

Fee £ *100.00* Received by me *on completion.*