

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

PARTICULARS RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH TOP GALLANT FORECASTLES, SHORT POOPS AND BRIDGE HOUSES DISCONNECTED, OR WITH TOP GALLANT FORECASTLES HAVING LONG POOPS, OR RAISED QUARTER DECKS CONNECTED WITH BRIDGE HOUSES, OR OTHERWISE.

Port of Survey **(BODENWERDER) BREMEN.**
 Date of Survey **31 JULY 1931.**
 Name of Surveyor **Will. Meyer.**

T.S.S. "GARDENGA"

Number in Register Book

Port of Registry and Nationality.
PORT NATAL

Official Number.

Gross Tonnage.
286.73Date of Build.
1905Particulars of Classification.
**100% WITH FREEBOARD
FOR COASTING SERVICE BETWEEN
LAURENCO MARQUES AND PORT
ELIZABETH.**

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	127.85	27.97	8.26	221.526
Length on LOADLINE.	129.25	Frame Depth 3 Rule " 3	Ceiling fitted Sheer +18	Peak } Incl'd Tanks }
CORRECTED DIMENSIONS.	129.25	27.97	8.44	221.52

Co-efficient of fineness.....

Any modification necessary {

[Para. 4 (a) to (e)]*

Co-efficient as corrected

Sheer { Stem **19 1/2"** } $39.56 \div 2 = 19.78$ Mean
 at { Sternpost **9 1/4"** } $4.2 \div 2 = 2.1$
 If gradual = **4.2**
 Sheer at $\frac{1}{2}$ of the length from { Stem **15 3/4"** } $15.75 \div 2 = 7.875$
 Sternpost **2 3/4"** } $18.06 \div 2 = 9.03$ Mean
 Gradual mean Sheer **9.97** $\div 55 = 16.42$
 Standard mean Sheer [Table, Para. 18] **15.54** Correction
 Difference **5.54** $\div 4 = 1.39$
 § If limited as Para. 18 (f) **+1 1/2"**

Rise in Sheer { At front of bridge house.....
 from amidships {
 [Para. 18 (e)] { At after end of forecastle

Fall in Sheer { $\div 2 =$
 Para. 18 (d) }
 Length uncovered Correction

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C..... **0 - 1 1/2"**
 Correction for Length, if required (Para. 12, 13, and 14) **+ 1 1/4"**
 Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) **1 - 3 1/4"**
 Difference **1 - 0 1/2"**
 Percentage as below **5.47%**
684

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) **- 3/4"**
 Allowance for Deck Erections **- 3/4"**

	Length.	Length allowed.	Height.
Forecastle.....	11.35'	$\times \frac{5.75}{6.0} = 10.92$	5.75'
Bridge House			
† Raised Qr. Dk.....			
Poop.....			
Total		18.54	1.43
Length of Ship	129.25		1.14 eighths

Corresponding percentage { $9.12 \times \frac{1}{10} = 5.47\%$
 (Para. 11, 12, 13, and 14)

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Steel) Deck:—

Fresh Water Line	above centre of Disc	...
Indian Summer Line	" " "	...
Winter Line	below " "	...
Winter North Atlantic Line	" " "	...

24 JUL 1931

† If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible.
 † In vessels obtaining an allowance for deck erections under Para. 11 where the sheer drops abaft amidships the height of the R.Q.D. is to be taken from the level of the top of the amidship beam.
 § In flush-decked vessels the total standard mean sheer means the sheer measured at the stem and sternpost. In vessels having poops and forecastles, it means the sheer measured at points distant one-eighth of the vessel's length from stem and sternpost.

2m, 9.22. T.

Moulded Depth as measured..... **8 - 4"**
 Rule wood dk. less Str. **- 2 1/2"**
 Addition for Keel below base line for draught record..... inches. **8 - 1 1/2"**

NOTE.—If the depth is measured when vessel is afloat, the details of measurement should be reported.

CORRECTION FOR LENGTH.

Length of Ship on Loadline..... **129.25'**
 Length in Table **97.50'**
 Difference **31.75'**
 Correction for 10ft., Table A. **.8** Table C. **.4**
 × Difference divided by 10 **2.54** (if required.) **1.27**
 If $\frac{1}{10}$ ths length covered divide by 2 **+ 2 1/2"** **+ 1 1/4"**

CORRECTION FOR IRON DECK.

Proportion covered, if less than $\frac{1}{10}$ ths length covered
 Thickness of usual wood deck, less stringer **Allowed in reduced mid depth**

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... **24'**
 Round of Beam **6.0**
 Normal round..... **6.0**
 Difference **.50** $\div 2 =$ **.25**
 Proportion of Deck uncovered (Para. 19) **.86** **- 1/4"**

NOTE.—The round of beam should be reported on the full breadth of vessel at the gunwale.

Freeboard, Table A **1 - 0 3/4"**
 Correction for Sheer **+ 1 1/2"**
 Correction for Length **+ 2 1/2"**
 Allowance for Deck Erections **- 3/4"**
 Correction for Round of Beam..... **- 1/4"**
 Correction for fall in Sheer (if any).....

Correction for Iron Deck (if required) { **Allowed in reduced mid depth** **+ 1 1/2"**
 Penalty for loss of buoyancy aft **+ 1 1/2"**
 Additions for non-compliance with provisions of Para. 11 (d) and (e) **+ 2 3/4"**
 Other Corrections (if any) **for scantlings and to correspond to the approved draught of 6.9 for all seasons** **+ 2 3/4"**

Winter Freeboard **1 - 8 1/4"**
 Summer Freeboard **1 - 7 1/4"**
 Indian Summer Freeboard
 N. A. Winter Freeboard

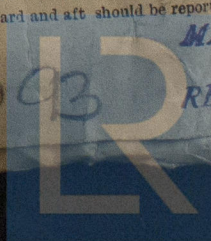
Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the wood or steel deck with side. **+ 1"**

Winter Freeboard from deck line **1 - 8 1/4"**
 Summer " " "
 Indian Summer " " "
 N. A. Winter " " " **1 - 8 1/4"** For all seasons

† State dimensions of freeing port area on back of this form.

† The Surveyor should state whether the fall in sheer as reported is measured relatively to the straight line of keel or to the water line. If measured relatively to water line the vessel's draft at time of survey, and also the usual load draft forward and aft should be reported.

MARKING FORM
 RECEIVED 29 JUL 1931



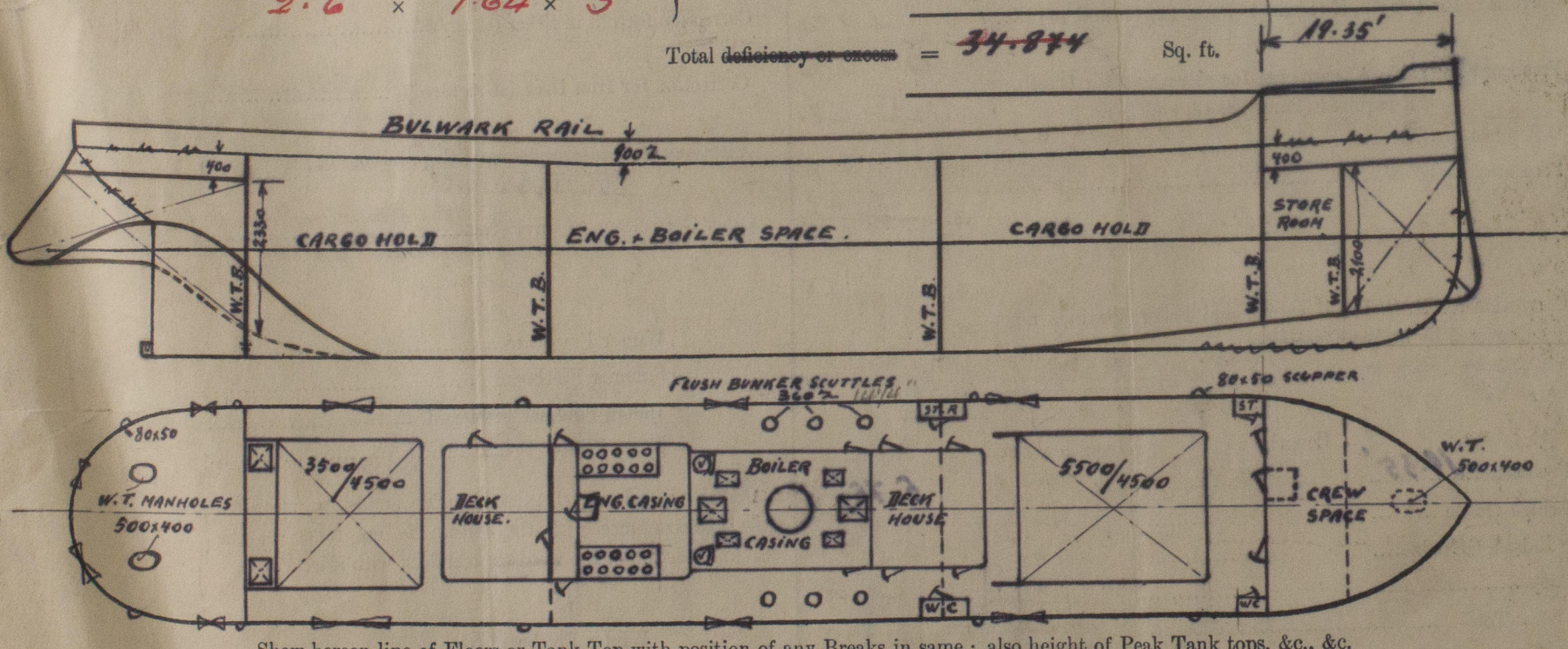
Lloyd's Register Foundation

Do all the Frames extend to the top height in the Poop? UPPER Raised Quarter Deck? YES Bridge House? YES Forecastle? YES
To what height do the Reverse Frames extend? ONE FOOT ABOVE SIDE STRINGER.
Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? YES
Give particulars of the means for closing the openings in Bulkhead DECK
Is the Poop or Raised Quarter Deck connected with the Bridge House? YES Has the Bridge House an efficient Bulkhead at the fore end? YES
Give particulars of the means for closing the openings in Bulkhead NONE
What is the thickness of the Bridge Front plating? 5/8 and Coaming plate? 9/16
Give scantlings and spacing of the Stiffeners 4-654506, 5002
Are bracket plates fitted at each end of the Stiffeners? NO Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? YES
Has the Bridge House an efficient Iron Bulkhead at the after end? YES
How are the openings closed? NONE
Is the Forecastle at least as high as the main or top-gallant rail? YES Has the Forecastle an efficient Iron or Wood Bulk'd. at after end? YES, IRON.
Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? COVERED BY CASING.
If the openings are not so protected are the exposed parts of the Casings efficiently constructed? CASING EFFICIENTLY CONSTRUCTED.
Give thickness of plating; scantlings and spacing of Stiffeners 4.52, 3 WEBS SPACED 8002.
What is the height of the exposed Casings? 900/1650 Are suitable means provided for closing all openings in them in bad weather? YES
Are the Weather Deck Hatchways efficiently constructed and at least equal to the requirements of Section 28 of the Rules for 1904-5? Give particulars below: YES, AS PER RULES 1930/31.

Position and Size.		FORW. HATCH.		AFTER HATCH.							
Item.		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING.	Height above top of DECK	800/600	APPR.	800/600	APPR.						
	Sides	9.52	.37	9.5							
	Ends	9.52		9.5							
SHIFTING BEAMS OR WEB PLATES.	Number	2 3 1/2 x 3 x .39		1							
	Section and Scantlings	71-9013510	19 3/4 x .35	AS FD.							
	Material	STEEL		STEEL							
* FORE AND AFTERS.	Number	3 6' x 7"		3							
	Section and Scantlings	150x180		150x180							
	Material	WOOD		WOOD							
HATCHES Thickness		632		632							
Remarks		2 1/2									

* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.
(If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the tables, state vertical distance from top of deck at side amidships to lower edge of lowest side scuttle.)
The following information is to be given in all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) and under Shelter Deck Rules.

What is the thickness of the Bridge Sheerstrake? 7/16" DOUBLING - 182 Strake between Main and Bridge Sheerstrakes? YES
Delete the words { The Crew are, ~~are not~~, berthed in the bridge house.
that do not apply { The arrangements to enable them to get backwards and forwards from their quarters are, ~~are not~~ satisfactory.
Length of Bulwarks in well 109-7
Area of Freeing Ports required by Para. 11 (e) each side of vessel = Sq. ft.
Ft. Tenths. Ft. Tenths. No. } Freeing Ports = 17.58 Sq. ft.
2.3 x 1.04 x 2 } (each side of vessel) = 17.432 Sq. ft.
2.6 x 1.64 x 3 }
Total deficiency or excess = 34.844 Sq. ft.



Show hereon line of Floors or Tank Top with position of any Breaks in same; also height of Peak Tank tops, &c., &c.
State any special features in the construction of the Vessel
Builder's name and yard number MESSRS. KLAUITTER, DANZIG. YARD No 295.
Names of sister vessels YES
Owners PORT ST. JOHNS COASTERS PROPRIETARY, LTD.
Address
Fee £
Received by me