

(W134)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.-STEAM SHIPS.

B.T. COPY WRITTEN

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.**

Ship's Name. T.S.S. "GARDENGA"	Port of Registry and Nationality. PORT NATAL	Official Number. 121526	Gross Tonnage. 286.75	Date of Build. 1905	Particulars of Classification. 100A WITH FREEBOARD FOR COASTING SERVICE BETWEEN LAURENCO MARQUES AND PORT ELIZABETH.
Number in Register Book					

Registered dimensions from Ship's Register.	LENGTH. 127.85	BREADTH. 27.97	DEPTH. 8.26	UNDER DECK TONNAGE. 221.526
Length on LOADLINE.	129.25	Frame Depth 3 Rule " $\frac{3}{4}$	Ceiling fitted Sheer $+18$	Peak } Incl'd Tanks
CORRECTED DIMENSIONS.	129.25	27.97	8.44	221.52

Moulded Depth as measured ~~8.4~~ **8.4**
 Rule wood dk. less Str $-2\frac{1}{2}$
 Addition for Keel below base line for draught record.....inches. **8.1 1/2** to use

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

Co-efficient of fineness..... **.426**
 Any modification necessary [Para. 4 (a) to (e)]*
 Co-efficient as corrected **.43**

Sheer { Stem $29\frac{13}{16}$ } $39.56 \div 2 = 19.78$ Mean
 at { Sternpost $9\frac{3}{4}$ } 4.2 } $19.95 \div 2 = 9.97$
 If gradual = 4.2
 Sheer at $\frac{1}{2}$ of the length from { Stem $15\frac{3}{4}$ } $18.06 \div 2 = 9.03$ Mean
 Sternpost $2\frac{5}{16}$ } $\div .55 = 16.42$
 Gradual mean Sheer **9.97**
 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**

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 med 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) **all .86** **-1/4**

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

Rise in Sheer from amidships { At front of bridge house.....
 [Para. 18 (e)] { At after end of forecastle
 Fall in Sheer } $\div 2 =$
 Para. 18 (d) }
 Length uncovered Correction

Freeboard, Table A **1.0 3/4**
 Correction for Sheer **+1 1/2**
 Correction for Length **+2 1/2**
 Allowance for Deck Erections **1.4 3/4**
 Correction for Round of Beam..... **-3/4**
 Correction for fall in Sheer (if any).....

ALLOWANCE FOR DECK ERECTIONS :-
 Freeboard, Table C..... **0 - 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 Iron Deck (if required) **allowed in reduced med depth. +1/2**
 Penalty for loss of buoyancy aft **1. 5/4**
 Additions for non-compliance with provisions of Para. 11 (d) and (e) }
 Other Corrections (if any) **for scantlings and to correspond to the approved draught of 6.9 for all seasons. +2 3/4**
1. 8 1/4

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

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

	Length.	Length allowed.	Height.
Forecastle.....	11.35	$\times \frac{5.75}{6.8} = 18.54$	5.75
Bridge House			
† Raised Qr. Dk.....			
Poop.....			
Total		18.54	.143
Length of Ship		129.25	= 1.146 eighths
Corresponding percentage (Para. 11, 12, 13, or 14) } 9.12% = 5.47%			

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**

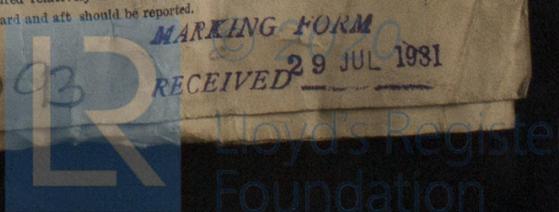
Winter Freeboard from deck line
 Summer " " " **1. 8 1/4**
 Indian Summer " " "
 N. A. Winter " " " **1. 8 1/4** For all seasons

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 " " "

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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.

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.



W512-0093

Do all the Frames extend to the top height in the Poop? UPPER Raised Quarter Deck? YES Bridge House? 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?

Give particulars of the means for closing the openings in Bulkhead

Is the Poop or Raised Quarter Deck connected with the Bridge House? Has the DECK 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 DECK HOUSE Bridge Front plating? 5/2 and Coaming plate? 9/2

Give scantlings and spacing of the Stiffeners 454502, 5002

Are bracket plates fitted at each end of the Stiffeners? NO Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks?

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 4,5 2, 3 WEBS SPACED 800 2.

What is the height of the exposed Casings? 900/1650 ^{2.9'5"} _{5.4'} 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		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
	Ship.	Rule.	Ship.	Rule.						
Item.	800/600	APPR.	800/600	APPR.						
COAMING. Height above top of DECK	Sides.....	9.5 2 .37	9.5							
	Ends.....	9.5 2	9.5							
SHIFTING BEAMS OR WEB PLATES. Number	2	3 1/2 x 3 x .39	1							
	Section and Scantlings	71-9013510 500x19	AS FD.							
	Material	STEEL	STEEL							
* FORE AND AFTERS. Number	3	6' x 7"	3							
	Section and Scantlings	150x180	150x180							
	Material	WOOD	WOOD							
HATCHES Thickness	63 2		63 2							
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? 3/4" x DOUBLING = 1 1/2" Strake between Main and Bridge Sheerstrakes?

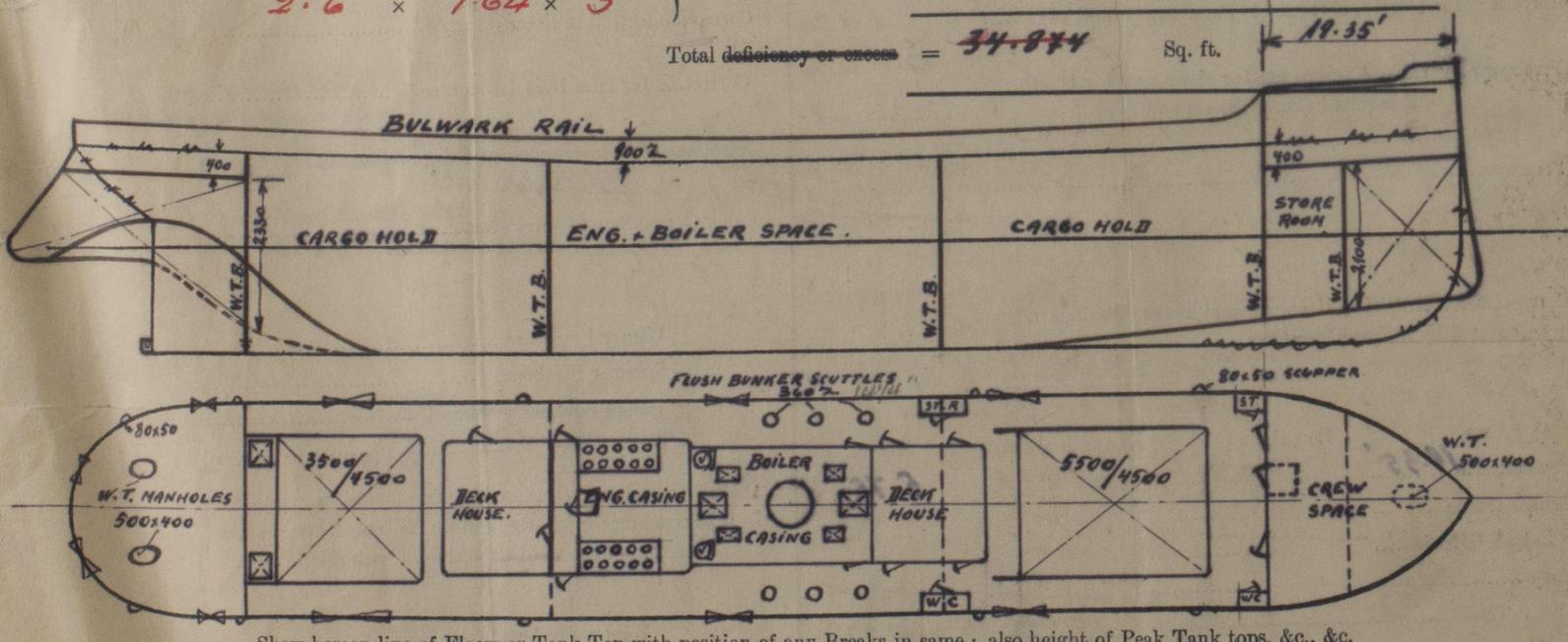
Delete the words The Crew are, ~~are not~~, berthed in the bridge house.
 The arrangements to enable them to get backwards and forwards from their quarters are, ~~are not~~ satisfactory.

Length of Bulwarks in well 109-9"

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 = 34.874 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. KLAWITTER, DANZIG, YARD No 295.

Names of sister vessels _____

Owners PORT ST. JOHNS COASTERS PROPRIETARY, LTD.

Address _____

Fee £ _____ Received by me _____