

Lloyd's Register of British & Foreign Shipping.

SURVEYS FOR FREEBOARD.-STEAM SHIPS.

57143
20426
FRI. 15 AUG 1909

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 *Newcastle-on-Tyne*
Date of Survey *11th + 12th August 1909*
Name of Surveyor *Alex. Munro*

Ship's Name. <i>S/s. "Saarnholm"</i>	Port of Registry and Nationality. <i>Copenhagen Danish</i>	Official Number. <i>✓</i>	Gross Tonnage. <i>1399.75</i> <i>Net 855.95</i>	Date of Build. <i>1905-12th</i>	Particulars of Classification. <i>+100A1.</i>
Number in Register Book <i>23</i>					

LENGTH. <i>252</i>	BREADTH. <i>38.25</i>	DEPTH. <i>16.25</i>	UNDER DECK Tonnage. <i>1264.95</i>
<i>252</i>	Frame Depth $\frac{7}{2}$ Rule $\frac{4}{3}$	Ceiling <i>2"</i> Sheer <i>.73</i>	Peak Tanks <i>30 tons</i>
<i>252</i>	<i>.50</i>	<i>16.98</i>	<i>1294.95</i>

Moulded Depth as measured... *18'-6"*

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.....	<i>252'-0"</i>
Length in Table	<i>222</i>
Difference	<i>30</i>
Correction for 10ft., Table A.	<i>1.1</i>
× Difference divided by 10	<i>3.3</i>
If $\frac{1}{10}$ ths length covered divide by 2	<i>+ 1$\frac{3}{4}$"</i>

CORRECTION FOR IRON DECK.

Proportion covered, if less than $\frac{1}{10}$ ths length covered	<i>3/4</i>
Thickness of usual wood deck, less stringer.....	<i>-3/4</i>

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships.....	<i>37'-3"</i>
Round of Beam.....	<i>9$\frac{1}{2}$"</i>
Normal round	<i>9.31</i>
Difference	<i>19 ÷ 2 = 9.5</i>
Proportion of Deck uncovered (Para. 19)	<i>.09</i>

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

Stem... *84*
Sternpost... *39*
 $123 ÷ 2 = 61.5$ Mean

of the length from { Stem *46 $\frac{1}{2}$*
Sternpost *21 $\frac{3}{4}$* } $68 \frac{1}{4} ÷ 2 = 34 \frac{1}{8}$ Mean

Mean Sheer
Mean Sheer (Table, Para. 18) *35.7* Correction
Difference..... $26.3 ÷ 4 = -6 \frac{1}{2}$

in Sheer { At front of bridge house..... *28 $\frac{1}{2}$*
amidships {
18 (e) } At after end of forecastle *4.9*

in sheer }
18 (d) } ÷ 2 =
uncovered Correction

ALLOWANCE FOR DECK ERECTIONS:—

Table C.....	<i>1.1</i>	<i>1.1</i>
Correction for Length, if required (Para. 12, 13, and 14)	<i>3.5</i>	<i>2.11</i>
Correction by Table A. corrected for sheer, and for length, if required (Para. 12, 13, and 14)	<i>2.45</i>	<i>1.10</i>
Correction for sheer as below.....	<i>49.47</i>	<i>69.20</i>
	<i>14</i>	<i>15$\frac{1}{4}$</i>

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11)
Allowance for Deck Erections

Length.	Length allowed.	Height.
Centreline <i>25-0</i>	<i>26</i>	<i>7'-0"</i>
Side <i>28-4</i>		
House		
Q. Dk. <i>198-8$\frac{1}{2}$</i>	<i>198 7</i>	<i>7'-0"</i>
Total	$\frac{224.7}{252} = .892$	

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

Fresh Water Line above centre of Disc	<i>4$\frac{1}{2}$</i>
Indian Summer Line " " "	<i>3</i>
Winter Line below " "	<i>3</i>
Winter North Atlantic Line " " "	<i>5</i>

13.8.09.

Freeboard, Table A	<i>3.5$\frac{1}{4}$</i>
Correction for Sheer	<i>-6$\frac{1}{2}$</i>
Correction for Length	<i>2.11</i>
Allowance for Deck Erections	<i>1.3$\frac{1}{4}$</i>
Correction for Round of Beam.....	<i>1.2$\frac{1}{2}$</i>
Correction for fall in Sheer (if any)	
Correction for Iron Deck (if required)	<i>-3$\frac{1}{4}$</i>
Additions for non-compliance with provisions of Para. 11 (d) and (e) †	
Other Corrections (if any) <i>Hatch supports</i>	<i>+ 3/4</i>
Winter Freeboard	<i>1.6$\frac{3}{4}$</i>
Summer Freeboard	<i>1.3$\frac{3}{4}$</i>
Indian Summer Freeboard	<i>1.0$\frac{3}{4}$</i>
N. A. Winter Freeboard	<i>1.8$\frac{3}{4}$</i>

Correction necessary because clearside amidships, measured in accordance with the Statute, is not taken at the intersection of the wood or iron deck with side.

Winter Freeboard from deck line	<i>8$\frac{1}{4}$</i>
Summer " " "	<i>5$\frac{1}{4}$</i>
Indian Summer " " "	<i>2$\frac{1}{4}$</i>
N. A. Winter, " " "	<i>10$\frac{1}{4}$</i>

† 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 12 SEP 1932

MARKING REPORT RECEIVED 22 SEP 1909 Lloyd's Register Foundation

11 009702-009710-0296

Do all the Frames extend to the top height in the Poop? *Yes* Raised Quarter Deck? *Yes* Bridge House? *Yes* Forecastle? *Yes*

To what height do the Reverse Frames extend? *Bull Angle frames*

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? *Yes*

Has the Bridge House an efficient Bulkhead at the fore end? *Yes*

Give particulars of the means for closing the openings in Bulkhead *two iron plate doors (one 2nd (side) secured with 3 strong latches with storm boards full height three more with similar bolts through each - vertical section*

What is the thickness of the Bridge Front plating? *7/20* and Coaming plate? *8/20*

Give scantlings and spacing of the Stiffeners *9 x 3 x 12/20 Bull Angles spaced 30" apart.*



Are bracket plates fitted at each end of the Stiffeners? *Yes*

Are hor'l. brackets fitted connecting Bridge Bulk d. with Bulwarks? *Yes* *3rd party brackets in dept of door*

Has the Bridge House an efficient Iron Bulkhead at the after end? *Yes*

How are the openings closed? *Yes*

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*

Are the Engine and Boiler openings covered by a Bridge Poop, ~~Raised~~ Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? *Yes*

If the openings are not so protected are the exposed parts of the Casings efficiently constructed? *Yes*

Give thickness of plating; scantlings and spacing of Stiffeners *Yes*

What is the height of the exposed Casings? *Yes* 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:—

Position and Size.	No 1 - 20'-5" x 15'-0"		No 2 - 23'-10" x 15'-0"		No 3 - 21'-10" x 15'-0"		No 4 - 21'-11" x 15'-0"		Ship.	Rule.	
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	
COAMING.	Height above top of DECK	36"	30"	22"	18"	22"	18"	22"	18"		
	Thickness	Sides.....	9/20	9/20	9/20	9/20	9/20	9/20	9/20		
		Ends.....	9/20	9/20	9/20	8/20	9/20	9/20	9/20		
SHIFTING BEAMS OR WEB PLATES.	Number	2	2	2	2	2	2	2			
	Section and Scantlings.....	I - 9/20 full depth angles 3 x 3 x 9/20		I - 9/20 full depth angles 3 x 3 x 9/20		I - 9/20 full depth angles 3 x 3 x 9/20		I - 9/20 full depth angles 3 x 3 x 9/20			
	Material.....	Pine		Pine		Pine		Pine			
FORE AND AFTERS.	Number.....	3	3	3	3	3	3	3			
	Section and Scantlings.....	center 6 x 6 sides 5 x 5		6 x 6 5 x 5		6 x 6 5 x 5		6 x 6 5 x 5			
	Material.....	Pine		Pine		Pine		Pine			
HATCHES Thickness	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2			
Remarks.....	<i>There are no iron plates fitted to the ends of the wood fore & afters.</i>										

* When the Fore and Afters are of wood the depth should be stated from the underside of the hatches.

(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? *9/20* Strake between Main and Bridge Sheerstrakes? *8/20*

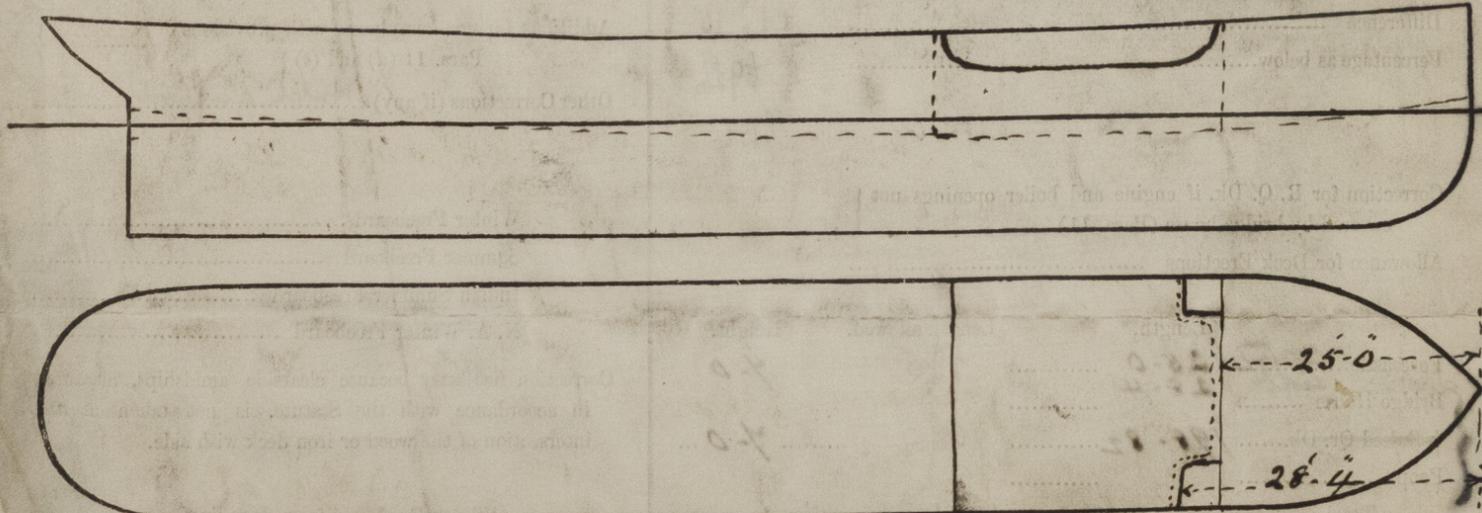
Delete the words { The Crew ~~are not~~, berthed in the bridge house. that do not apply { The arrangements to enable them to get backwards and forwards from their quarters are, ~~are not~~ satisfactory.

Length of Bulwarks in well *24 ft.*

Area of Freeing Ports required by Para. 11 (e) each side of vessel = *8.9* Sq. ft.

Ft. Tenths. Ft. Tenths. No. } Freeing Ports (each side of vessel) = *10.69* Sq. ft.
5.25 x 1.83 x 2 }
11.89

Total deficiency or excess = *1.79* Sq. ft.
2.99



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

Owners

Address

Fee £ 3 : 3 : —

Received by me *17/10/09*

Appraised for *12* Aug 1909



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