

# 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 Barrow-in-Furness  
Date of Survey April 7<sup>th</sup> 1924.  
Name of Surveyor Kenneth Inglis.

Ship's Name.  
S.S. GLANRHYD.  
VICKERS LTD NO 607  
Number in Register Book

Port of Registry  
and Nationality.  
LONDON  
BRITISH

Official  
Number.  
147638

Gross  
Tonnage.  
1560  
APPROX

Date of Build.  
4-1924

Particulars of Classification.  
+100A.1. (Contemplated)  
(New Rules)

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	<u>245.9</u>	<u>38.8</u>	<u>16.0</u>	<u>1193.58</u>
Length on LOADLINE.	<u>245</u>	Frame Depth <u>8</u> No. <u>5</u> Rule <u>2 x 3</u> Sheer <u>+0.20</u> Peak <u>+0.73</u> Tanks <u>deduct for 24' from aft = 15 tons.</u>	Ceiling <u>+0.20</u> Sheer <u>+0.73</u> LEVEL TANK.	
CORRECTED DIMENSIONS.	<u>245</u>	<u>38.83</u>	<u>16.93</u>	<u>1170.58</u>

Co-efficient of fineness..... .74  
Any modification necessary [Para. 4 (a) to (e)]\* .02 C.O.B.  
Co-efficient as corrected ..... .72

Sheer { Stem..... 78 } 117 ÷ 2 = 58.5 ...Mean  
at { Sternpost ... 39 }  
Sheer at  $\frac{1}{2}$  of the length from { Stem 44.5 } 66.7 ÷ 2 = 33.35 ...Mean  
{ Sternpost 22.2 }  
Gradual mean Sheer ..... 58.5 + 60.63 = 59.56  
Standard mean Sheer [Table, Para. 18] ..... 34.5 Correction  
Difference..... 25.06 ÷ 4 = 6.26  
§ If limited as Para. 18 (f) ..... -6 1/4

Rise in Sheer { At front of bridge house.....  
from amidships { At after end of forecastle.....

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

### ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C..... 0' 11"  
Correction for Length, if required (Para. 12, 13, and 14) .....  
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) ..... 2-7 3/4  
Difference ..... 1-8 3/4  
Percentage as below..... 48.8%

Class A appliances on Bridge front  
Bulkhead = Para. 12 scale Allow. 10.12

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) .....  
Allowance for Deck Erections ..... -10"

	Length.	Length allowed.	Height.
Forecastle.....	<u>18.75</u>	<u>18.75</u>	<u>7.25</u>
Bridge House.....	<u>54.00</u>	<u>54.00</u>	<u>6.00</u>
+ Raised Qr. Dk.....	<u>95.75</u>	<u>95.75</u>	<u>6.00</u>
Poop.....			

Total ..... 168.50 = .688

Length of Ship ..... 245  
Corresponding percentage { Para. 12, 13, and 14 } 48.8%

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

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

Moulded Depth as measured..... 18' 0"  
Addition for Keel below base line for draught record..... 1/2 inches.

### CORRECTION FOR LENGTH.

Length of Ship on Loadline..... 245  
Length in Table ..... 216  
Difference ..... 29  
Correction for 10ft., Table A. .... 1.1  
× Difference divided by 10 ..... 3.19  
If  $\frac{1}{10}$ ths length covered divide by 2 1.6  
Table C. (if required.) +1 1/2

### CORRECTION FOR IRON DECK.

Proportion covered, if less than  $\frac{1}{10}$ ths length covered ..... .688  
Thickness of usual wood deck, less stringer ..... 3 1/2  
3 1/2 x .952 = 3.33 = 3 1/4

### CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... 38.5  
Round of Beam ..... 9.5  
Normal round..... 9.62  
Difference ..... .12 ÷ 2 = .06  
Proportion of Deck uncovered (Para. 19) ..... ✓

Freeboard, Table A ..... 3' 2"  
Correction for Sheer ..... +6 1/4  
Correction for Length ..... 2-7 3/4  
Allowance for Deck Erections ..... +1 1/2  
Correction for Round of Beam ..... 2-9 1/4  
Correction for fall in Sheer (if any) ..... -10  
Correction for Iron Deck (if required) ..... 1-11 1/4  
Additions for non-compliance with provisions of Para. 11 (d) and (e) .....  
Other Corrections (if any) .....  
Correction for Round of Beam ..... ✓ - 3 1/4  
1' - 8"

Winter Freeboard ..... 1' 8"  
Summer Freeboard ..... 2 1/4  
Indian Summer Freeboard ..... 1' 3 1/2  
N. A. Winter Freeboard ..... 1-10

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. 1 1/2"

Winter Freeboard from deck line ..... 1' 9 1/2  
Summer " " " ..... 1' 7 1/2  
Indian Summer " " " ..... 1' 5"  
N. A. Winter " " " ..... 1' 11 1/2  
Winter Freeboard from deck line ..... 1' 7 1/2  
Summer " " " ..... 2 1/4  
Indian Summer " " " ..... 2 1/2  
N. A. Winter " " " ..... 4 1/2

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.

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RECEIVED 23 APR 1924



Do all the Frames extend to the top height in the Poop? *No poop.* Raised Quarter Deck? *Yes* Bridge House? *Yes* Forecastle? *Yes*  
 To what height do the Reverse Frames extend? *None*  
 Has the ~~Poop~~ Raised Quarter Deck an efficient Iron Bulkhead at the fore end? *Yes*  
 Give particulars of the means for closing the openings in Bulkhead *channels & boards. No openings*  
 Is the ~~Poop~~ 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 *see above. channels & boards. (riveted channels and stormboards full height) Barrow ls. 22.4.24*  
 What is the thickness of the Bridge Front plating? *.36* and Coaming plate? *.40*  
 Give scantlings and spacing of the Stiffeners *6 x 3 x .34 BA spaced 2'6" see letter to Sec 7/4/24*  
 Are bracket plates fitted at each end of the Stiffeners? *hugs fitted* Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? *deck stringer carries*  
 Has the Bridge House an efficient Iron Bulkhead at the after end? *No*  
 How are the openings closed? *Yes* Has the Forecastle an efficient Iron or Wood Bulk'd. at after end? *open*  
 Is the Forecastle at least as high as the main or top-gallant rail? *Yes*  
 Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? *enclosed by deckhouse.*  
 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? *none* 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 - 24'0" x 27'0"		No 2 - 27'0" x 29'		No 3 - 25'0" x 29'0"		No 4 - 24'6" x 26'9"		Ship.	Rule.
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
Height above top of DECK	4'0"		4'0"		3'0"		3'0"			
COAMING Thickness	Sides	.44	.44	.44	.44	.44	.44	.44		
	Ends	.44	.44	.44	.44	.44	.44	.44		
SHIFTING BEAMS OR WEB PLATES.	Number	5	5	5	5	5	5	5		
	Section and Scantlings	21" at centre, 10 1/2" at sides	with double angles top and bottom	5 1/2 x 3 1/2	50: Web plate .38					
* FORE AND AFTERS.	Number									
	Section and Scantlings									
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										

\* 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.)

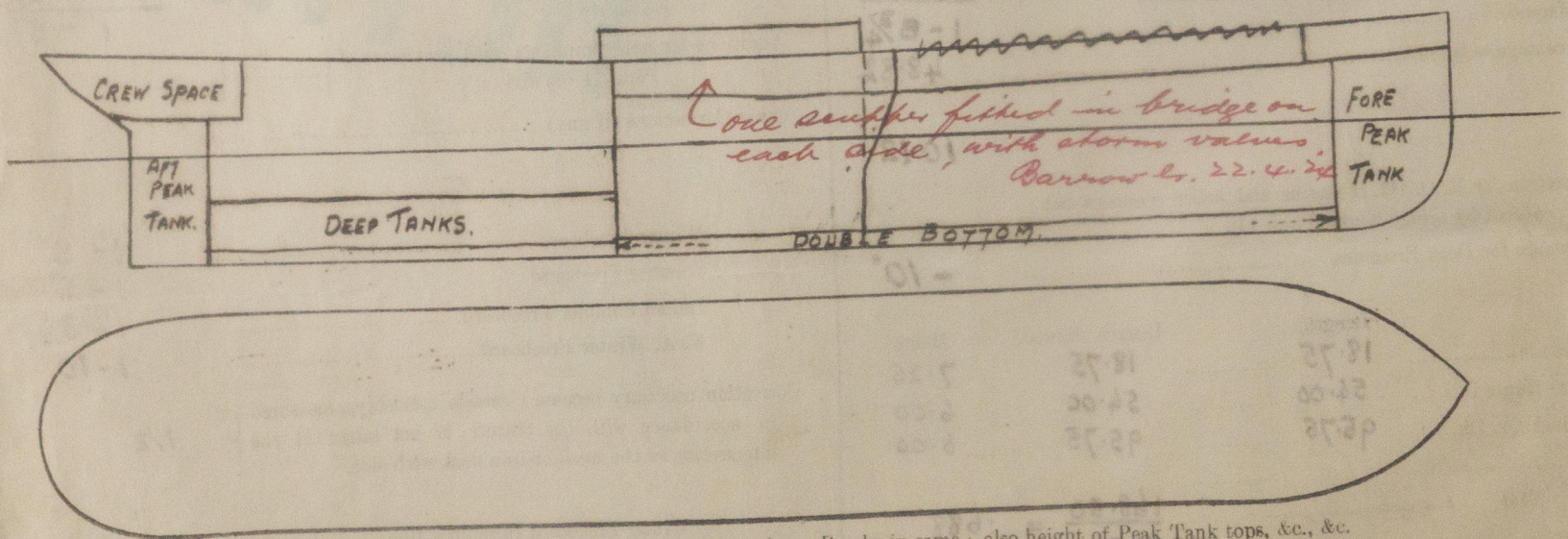
The following information is to be given in all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) and under Shelter Deck Rules.  
 What is the thickness of the Bridge Sheerstrake? *.50* Strake between Main and Bridge Sheerstrakes? *.48*

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, ~~unsatisfactory~~ satisfactory.

Length of Bulwarks in well *76'6" x 4'0" high. = 3046 sq. ft.*  
 Area of Freeing Ports required by Para. 11 (e) each side of vessel = *15.3* sq. ft.

Ft. Tenth. Ft. Tenth. No.  
 4 . 0 x 2 . 0 x 4 } Freeing Ports (each side of vessel) = *32* sq. ft.

Total deficiency or excess = *16.7* 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 *A provisional freeboard was assigned to this vessel on May 4<sup>th</sup> 1923.*  
 Length of Raised Quarter Deck bulwark - *149.75'* height - *3'0"* : 6 freeing ports 2'9" x 1'6" each side = *24*  
 Owners *Harriss Bros.*  
 Address *Swansea.*  
 Fee £ *6 : 0 : 0* Received by me *See F.R. Report.*



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