

Sed. 9/8/32.

Commande 23070

Verification Report

Mdb. Report No. 2720

Lloyd's Register of British & Foreign Shipping.

NOV. 17. 1914

SURVEYS FOR FREEBOARD.—STEAM SHIPS. 23988

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 Middlesbrough-on-Tees  
Date of Survey While Building  
Name of Surveyor A. Thelley

Bamburgh

Ship's Name. <u>Miss W. Harkiss Son N. 208</u> <u>ex "Arkleside"</u>	Port of Registry and Nationality. <u>Dundee</u> <u>British</u>	Official Number. <u>137246</u>	Gross Tonnage. <u>463.42</u> <u>648</u>	Date of Build. <u>1914</u>	Particulars of Classification. <u>+ 100 A.1 (Contemporary)</u>
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Registered dimensions from Ship's Register.	LENGTH. <u>179.9'</u>	BREADTH. <u>28.05'</u>	DEPTH. <u>11.45'</u>	UNDER DECK TONNAGE. <u>463.42</u>
Length on LOADLINE.	<u>179.79</u>	Frame Depth Rule <u>28.05</u>	Ceiling <u>Fitted</u> Peak } <u>incl. Tanks</u> Sheer + .43 Tank 3 1/2 3 1/2 x 2 + .14	
CORRECTED DIMENSIONS.	<u>179.79</u>	<u>27.72</u>	<u>12.02</u>	<u>458.98</u>

Moulded Depth as measured..... 13' 6"  
 $\frac{14 - 1}{2} = 6.5$   
 $\frac{2 - 6.5}{2} = 2.25$   
11' 6 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..... 179.79' ✓  
 Length in Table ..... 162' ✓  
 Difference ..... 17.79' ✓  
 Correction for 10ft., Table A. .... .9 Table C.  
 × Difference divided by 10 ... 1.59 1.6 (if required.) ✓  
 If 1/10ths length covered divide by 2 ... .80 + 3/4 ✓  
.795

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/2ths length covered ..... over 7/10  
 Thickness of usual wood deck, less stringer ..... 3" - 3" ✓

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... 27' 4 1/2"  
 Round of Beam ..... 7"  
 Normal round..... 6.84  
 Difference ..... .16 ÷ 2 = .08  
 Proportion of Deck uncovered (Para. 19) ..... ✓

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

Co-efficient of fineness..... .767  
 Any modification necessary } -.02 cell D. Skin  
 [Para. 4 (a) to (e)]\*  
 Co-efficient as corrected ..... .747 say .75 ✓

Sheer { Stem..... 54" } 85.5 ÷ 2 = 42.75 ... Mean  
 at { Sternpost... 31.5 }

Sheer at 1/2 of the length from { Stem 31" } 48 ÷ 2 = 24 ... Mean  
 { Sternpost 17" }

Gradual mean Sheer ..... 42.75 + 48.63 ÷ 2 = 45.69  
 Standard mean Sheer [Table, Para. 18] ..... 27.97 Correction "  
 Difference..... 15.22 ÷ 4 = 3.8  
 § If limited as Para. 18 (f)..... -3 3/4 ✓

Rise in Sheer from amidships [Para. 18 (e)] { At front of bridge house..... 11"  
 { At after end of forecastle ..... ✓

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

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C..... 5 1/4" ✓  
 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) } 1 - 9 1/2" ✓  
 Difference ..... 1 - 4 1/2" ✓  
 Percentage as below..... 78.2% ✓  
12.70 ✓  
- 1 - 0 1/4" ✓  
 Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) } + 1/2" ✓  
 Allowance for Deck Erections ..... 1 - 0 1/4" ✓

	Length.	Length allowed.	Height.
Forecastle.....	<u>21-10 + 3 1/2</u> <u>overhang</u>	<u>22-12</u>	<u>7-0"</u>
Bridge House .....	<u>11-0</u>	<u>11-0</u>	<u>7-0</u>
† Raised Qr. Dk.....	<u>119-2</u>	<u>118-15</u>	<u>3-6</u>
POOPS.....	<u>152-0</u>	<u>151-27</u>	<u>84 1/2%</u>
Total .....			
Length of Ship .....	<u>179.79</u>		
Corresponding percentage (Para. 11, 12, 13, or 14) }	<u>78.2%</u>		

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	" " "	.....	.....	.....	.....

Freeboard, Table A ..... 2 - 1 1/4" ✓  
 Correction for Sheer ..... 3 1/2" ✓  
1 - 9 1/2" ✓  
 Correction for Length ..... 4" ✓  
1 - 10 1/4" ✓  
 Allowance for Deck Erections ..... 1 - 0 1/4" ✓  
10" ✓  
 Correction for Round of Beam..... ✓  
 Correction for fall in Sheer (if any)..... ✓  
 Correction for Iron Deck (if required) ..... - 3" ✓  
7" ✓  
 Additions for non-compliance with provisions of Para. 11 (d) and (e) † ..... ✓  
 Other Corrections (if any) ..... R. Q. Dk height 3 - 6" ✓

Winter Freeboard ..... 7" 4 - 1  
 Summer Freeboard ..... 5 1/2" 3 - 11  
 Indian Summer Freeboard ..... 4" ✓  
 N. A. Winter Freeboard ..... 7 1/2" ✓  
 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" ✓

Winter Freeboard from deck line ..... 8 1/2" 4 - 2  
 Summer " " " ..... 8 1/2" 4 - 0  
 Indian Summer " " " ..... 5 1/2" ✓  
 N. A. Winter " " " ..... 8 1/2" ✓

Raised Quarter  
 Wood (Iron) Deck:— 4" - 0" ✓  
3 1/2" ✓  
2" ✓  
2" ✓

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

† 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 18.1.23

RECEIVED 2/11/14

Lloyd's Register of Shipping Foundation

002289-002297-0013

Do all the Frames extend to the top height in the Peep?  Raised Quarter Deck? *Yes.* Bridge House? *alternately with intermediate stiffening* Forecastle? *Yes.*  
 To what height do the Reverse Frames extend? *Bull angle framing*  
 Has the Peep or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? *Yes.*  
 Give particulars of the means for closing the openings in Bulkhead *No openings.*  
 Is the Peep 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 *No openings.*  
 What is the thickness of the Bridge Front plating? *.26* and Coaming plate? *.30*  
 Give scantlings and spacing of the Stiffeners *5 1/2 x 3 x 820 bull angles @ 30° apart.*  
 Are bracket plates fitted at each end of the Stiffeners? *Yes.* Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? *NA Rail box carried up.*  
 Has the Bridge House an efficient Iron Bulkhead at the after end? *Yes.*  
 How are the openings closed? *One Teak wood door.*  
 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, Peep, 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. *Plating .25 coaming .30 stiffeners 3 x 2 1/2 x 5/10 @ 30° apart.*  
 What is the height of the exposed Casings? *7'-0"* 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.*

*See survey letter 6-15*

Position and Size.	No. 1 27.0 x 17.1 1/2		No. 2 45.2 x 17.1 1/2		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
	Ship.	Rule.	Ship.	Rule.						
COAMING	Height above top of DECK	30"	30"							
	Thickness	Sides	.48	.54						
		Ends	.40	.40						
STIFFENING BEAMS OR WEB PLATES	Number	Four	Eight							
	Section and Scantlings	5 x 3 x .40 2 1/2 x 3 x .34	4 x 3 x .40 2 1/2 x 3 x .34							
	Material	5 x steel	4 x steel							
* FORE AND AFTERS	Number									
	Section and Scantlings									
	Material									
HATCHES	Thickness	3"	3"							
Remarks										

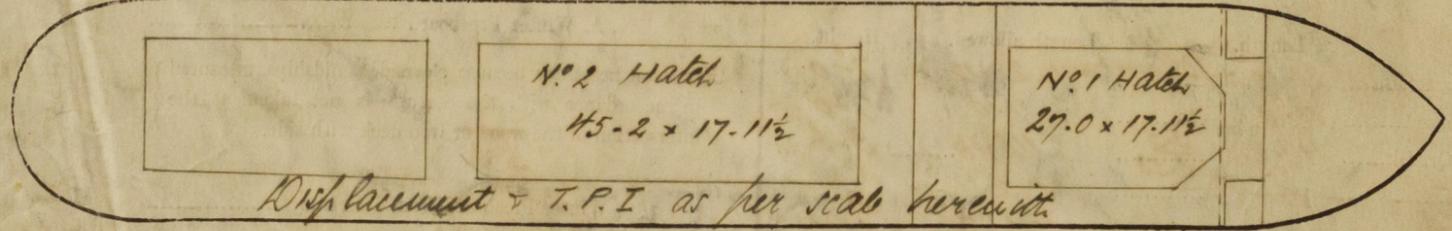
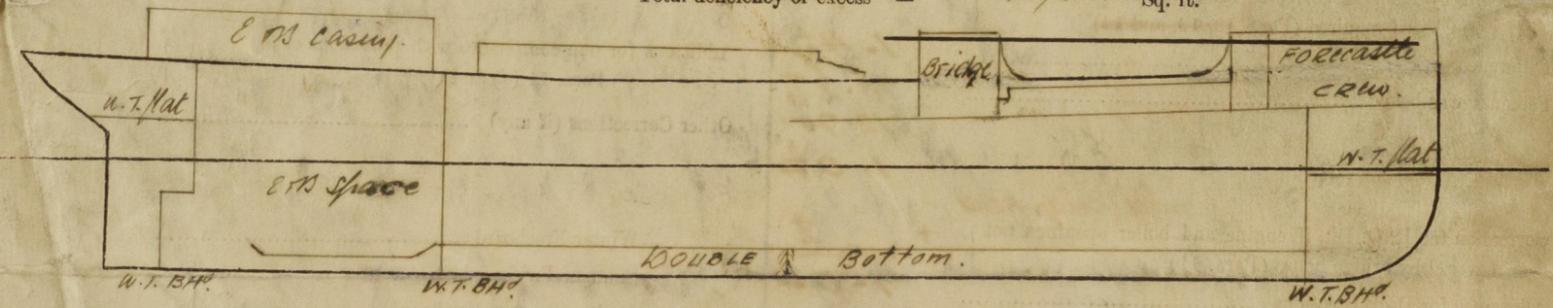
\* When the Fore and Afters are of wood the depth should be stated from the underside of the hatches.  
 (If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the tables, state vertical distance from top of deck at side amidships to lower 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? *.26* Strake between Main and Bridge Sheerstrakes? *.26*

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. *Guarney fitted*

Length of Bulwarks in well *27'-6"*  
 Area of Freeing Ports required by Para. 11 (e) each side of vessel = *9.25* Sq. ft.  
 Ft. Tenths. Ft. Tenths. No. } Freeing Ports = *10.98* Sq. ft.  
*3.0* x *1.83* x *2* } (each side of vessel)  
 Total deficiency or excess = *1.73* 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  
*accordance with the approved plan*  
 Yard No. is *208*  
 Builders *Messrs Wm Harker*  
 Owners *Middlebrow*  
 Address *Middlebrow*  
 Fee £ *✓* Received *by me*



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