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SAT. 31 JAN. 1903  
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# LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

## SURVEYS FOR FREEBOARD.

Particulars in respect of steam ships with top gallant forecastles, long poops or raised quarter decks connected with bridge houses, or short poop and bridge house disconnected, or bridge house.

Port of Survey *Thornaby-on-Tees*  
Date of Survey *While building*  
Name of Surveyor *James Williams*

Ship's Name	Gross Tonnage	Official Number	Type of Ship	Date of Build	Particulars of Classification
<i>Arctico</i>	<i>Craig Taylor &amp; Co. Re 94</i>	<i>as above</i>	<i>now</i>	<i>Class contemplated</i>	<i>100 A1 Steel</i>

Registered Length *250* Breadth *37.25* Depth *18.9*  
 Length on Loadline *250*  
 Breadth on Loadline *37.25*

Moulded Depth as measured *21-2*

Tons under Deck *1420.71*  
 Including Pairs *250 x 37.25 x 18.9 = 807*

CORRECTION FOR LENGTH :-  
 Length of Ship on load line *250*  
 Length in Table *254*  
 Difference *4*  
 Correction for 10ft., Table A *1.2* Table C *.6*  
 x Difference\* divided by 10 *(if required.)*  
 If  $\frac{1}{10}$ ths length covered divide by 2  *$\frac{4 \times 1.2}{10} = -\frac{1}{2}$   $\frac{4 \times .6}{10} = -\frac{1}{4}$*   
 for vessels coming under para. 11

Coefficient of fineness *807*  
 Modification necessary *Deep framing cell bottom .07*  
 Coefficient as corrected *80*

CORRECTION FOR IRON DECK :-  
 Proportion covered, if less than  $\frac{1}{10}$ ths length covered *45.6*  
 Thickness of usual wood deck, less stringer *3.2*  
*-1.2*

Stem *70*  
 Sternpost *35*  
 Mean *1050 ÷ 2 = 52.5*  
 Stem *38.5*  
 Sternpost *19.5*  
 Mean *29*  
 Difference *35.0 ÷ 4 = -4.2*  
 Correction *17.5*

CORRECTION FOR ROUND OF BEAM :-  
 Round of Beam *9.4*  
 Normal round *9*  
 Difference *÷ 2 =*

In Sheer { At front of bridge house *4"*  
 Amidships { At after end of forecastle *41*  
 16 (e)]

Proportion of Deck uncovered (Para. 17) *✓*

ALLOWANCE FOR DECK ERECTIONS :-  
 Table C *2 - 2 1/2*  
 Correction for Length, if required (Para. 12 and 13) *- 1/4*  
 Table A, corrected for sheer, and for length, if required (Para. 12 and 13) *3 - 10 3/4*  
 Correction *1 - 8 1/2*  
 Allowance as below *36.8*

Freeboard, Table A *4 - 3 3/4*  
 Correction for Sheer *- 4 1/2*  
 Correction for Length *3 - 11 1/4*  
 Allowance for Deck Erections *3 - 10 3/4*  
 Correction for Round of Beam *3 - 3 3/4*  
 Correction for Iron Deck (if required) *3 - 1 3/4*

on of R. Q. Dk. less than 4ft. high, or if engine and boiler openings not covered by bridge house  
 Allowance for Deck Erections *- 7 1/2*  
 Length. Length allowed. Height.  
 House *29.25* *29.25* *7-0*  
 House *58.00* *58.00* *7-0*  
 Dk. *30.75* *26.90* *3-6*  
 Total *114.15*  
 of Ship *250.00 = 456*

Additions for non-compliance with provisions of  
 Para. 11 (e) and (f) *3 - 1 1/4*  
 Other corrections (if any) *2 - 10 3/4*  
 Winter Freeboard *3 - 3 3/4*  
 Summer Freeboard *3 - 3 3/4*  
 N. A. Winter Freeboard *3 - 3 3/4*  
 Correction necessary because clear side amidships measured in accordance with the Statutes is not taken at the intersection of the deck with side *1/2*  
 Winter Freeboard from deck line *3 - 3 3/4*  
 Summer " " " " *3 - 0 1/4*  
 N. A. Winter, " " " " *3 - 5 1/4*

onding percentage *36.8*  
 H, 12, or 13.)

BOARD recommended amidships from centre of Disc to top of Statutory Deck Line :-  
 Fresh Water Line above centre of Disc *3 - 0*  
 Indian Summer Line " " " " *4 1/2*  
 Winter Line below " " " " *3*  
 Winter North Atlantic Line " " " " *3*

Particulars should be stated on the back of this Form as to the character of the Erections, and closed in or not.



ERASE WORDS WHICH DO NOT APPLY

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  $\times 2 \div$   
Freeing Ports

= Sq. Ft.

Ft. Tenths. Ft. Tenths. No. }

= Sq. Ft.

Total deficiency = Sq. Ft.

Total excess =

CHARACTER OF DECK ERECTIONS.

Do all the Frames extend to the top height in the Poop? *Yes.*

Do. do. do. do. Raised Quarter Deck? *✓*

Do. do. do. do. Bridge House? *Yes*

Do. do. do. do. Forecastle? *Yes.*

To what height do the Reverse Frames extend? *Bulk angle deep framing.*

Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at its fore end? *Yes*

State whether the Bridge House efficiently covers the Engine and Boiler Openings *Yes.*

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

Are efficient Doors fitted to the Passage Ways? *No openings.*

Describe how and to what extent it is Stiffened, by angle Irons, Bulb Plates, or otherwise *as Rule*

Has the Bridge House an efficient Iron Bulkhead at the after end? *Passage ways closed with wood*

Are efficient Doors fitted to the Passage Ways? *Shifting boards as usual.*

Are efficient Iron Doors fitted to the Passages of the Bridge House, or is it entered from above? *✓*

Has the Forecastle an efficient Iron or Wood Bulkhead at its after end? *Iron bulkhead.*

Are the Hatchways efficiently constructed? *Yes* State the height of the Coamings *30"*

Are the Hatches solid? *Yes* What is their thickness? *2 7/8"*

Are the exposed parts of the Engine and Boiler Casings efficiently constructed? *Yes.*

State any special features in the construction of the Vessel

*In the Secretary's letter dated 20<sup>th</sup> June 1902 this vessel was assigned a provisional freeboard of 2'-11" in summer to top of steel deck at side. The coefficient works out less than was then given and it is submitted she is eligible for the freeboard recommended hereon.*

*2 Plans  
MS*

*Jesse Williams*

Owners *✓*

Address *✓*

Fee £ *✓*

Received by me



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