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Lloyd's Register of British & Foreign Shipping.

SURVEYS FOR FREEBOARD - STEAM SHIPS. Verification

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 *Belfast*
Date of Survey *Building 20th Feb 1923*
Name of Surveyor *St. Kendall*

Harland & Wolff N^o 591

Ship's Name "INVERAVON"	Port of Registry and Nationality <i>London</i> <i>British</i>	Official Number <i>146709</i>	Gross Tonnage <i>6906.53</i>	Date of Build <i>1923</i>	Particulars of Classification <i>100 A1 Shelter Deck with freeboard</i>
Number in Register Book <i>79429</i>					

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE!
	<i>412.6</i>	<i>55.8</i>	<i>34.45</i>	<i>6100.21</i>
Length on LOADLINE.	<i>411.5</i>	Frame Depth <i>14 1/2</i> Rule " <i>7</i> <i>2 x 7 1/2</i> <i>= -1.25</i>	Ceiling + <i>.20</i> Sheer + <i>.05</i>	<i>no sparring</i> <i>say -30</i> <i>9 planking in Stern Dks -32</i> <i>cruiser -20</i> <i>stern</i>
CORRECTED DIMENSIONS.	<i>411.5</i>	<i>54.55</i>	<i>34.70</i>	<i>6108.21</i>

Moulded Depth as measured..... *38-0 1/2*
Wood Deck less stringer
addition for keel below base line
for draught record = 2 1/2
37-9

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>411.5</i>	
Length in Table	<i>453.0</i>	
Difference	<i>41.5</i>	<i>41.5</i>
Correction for 10ft., Table A.	<i>1.7</i>	Table C. <i>.8</i>
x Difference divided by 10	<i>7.05</i>	(if required.) <i>3.32</i>
If 1/10th length covered divide by 2	<i>-7</i>	<i>-3 1/4</i>

Efficient of fineness..... *77.79*
 Modification necessary [Para. 4 (a) to (c)]* *C. 98. Tank top open, used measured as if single bottom.*
 Efficient as corrected..... *77*

Table = .097 Trunk *320* + *20* = *.28*
 Correction FOR IRON DECK.
 Proportion covered, if less than 1/10th length covered *.377*
 Thickness of usual wood deck, less stringer
allowed in moulded depth.

Mean Sheer { Stem..... *75*
 Sternpost... *82* } *157 ÷ 2 = 78.5* Mean
 Mean Sheer at 1/2 of the length from { Stem *32*
 Sternpost *32* } ÷ 2 = ... Mean
 Gradual mean Sheer *Plotted*..... *52.875*
 Standard mean Sheer [Table, Para. 18]..... *51.15* Correction *-1/2*
 Difference..... *1.725 ÷ 4 =*

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships.....	<i>55.46</i>
Round of Beam.....	<i>nil</i>
Normal round.....	<i>13.86</i>
Difference	<i>13.86 ÷ 2 = 6.93</i>
Proportion of Deck uncovered (Para. 19).....	<i>.623 = 4.3</i>

If limited as Para. 18 (f).....
sheer for 184 ft amidships frames 45 to 108
 Rise in Sheer { At front of bridge house.....
 from amidships { At after end of forecastle.....
 [Para. 18 (e)]
 Fall in Sheer {
 Para. 18 (d) } ÷ 2 =
 Length uncovered..... Correction

Freeboard, Table A	<i>10-8 3/4</i>
Correction for Sheer	<i>- 1/2</i>
Correction for Length	<i>- 7</i>
Allowance for Deck Erections	<i>- 4 1/2</i>
Correction for Round of Beam.....	<i>+ 9-8 3/4</i>
Correction for fall in Sheer (if any).....	<i>10-1</i>

ALLOWANCE FOR DECK ERECTIONS :-
 Freeboard, Table C..... *10-8 3/4 - 3-2 1/2*
 Correction for Length, if required (Para. 12, 13, and 14)..... *7-6 1/4*
 Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14)..... *7-3*
 Difference..... *10-1 1/4*
 Percentage as below..... *13.2%*

Correction for Iron Deck (if required) *allowed in Moulded depth*
 Additions for non-compliance with provisions of Para. 11 (d) and (e) †
 Other Corrections (if any)

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11).....	
Allowance for Deck Erections	<i>- 4 1/2</i>
Forecastle.....	Length. <i>40</i> Length allowed. <i>40</i> Height. <i>8.0</i>
Bridge House.....	<i>320 x 20 = 6400</i> <i>55.46 x 2 = 110.92</i> <i>46.1</i> <i>7.0</i>
+ Raised Qr. Dk.....	
Poop.....	<i>86.1</i> <i>2.09</i>
Total	<i>411.5</i>
Length of Ship	
Corresponding percentage (Para. 12, 13, or 14).....	<i>13.2%</i>

Winter Freeboard	<i>10-1</i>
Summer Freeboard	<i>9-6</i>
Indian Summer Freeboard	<i>8-11</i>
N. A. Winter Freeboard	<i>✓</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.....	<i>nil</i>
Winter Freeboard from deck line	<i>10-1</i>
Summer " " " "	<i>9-6</i>
Indian Summer " " " "	<i>8-11</i>
N. A. Winter " " " "	<i>9-6</i>

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, *Shelter Deck* (Wood or Iron) 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 stern-post. In vessels having poops and forecastles, it means the sheer measured at points distant one eighth of the vessel's length from stem and stern-post.

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

To what height do the Reverse Frames extend? *Upper Deck*

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 Bridge House an efficient Bulkhead at the fore end?

Give particulars of the means for closing the openings in Bulkhead

What is the thickness of the Bridge Front plating? and Coaming plate?

Give scantlings and spacing of the Stiffeners

Are bracket plates fitted at each end of the Stiffeners? Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks?

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

How are the openings closed?

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? *Covered by trunk casing*

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 *44 Stiffeners 3 1/2 x 3 1/2 x .38 spaced 35 bracketed at top.*

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: *Oil tight covers*

Position and Size.		Ship.		Rule.		Ship.		Rule.		Ship.		Rule.	
Item.		Ship.	Rule.										
COAMING	Height above top of DECK												
	Thickness												
SHIFTING BEAMS OR WEB PLATES	Number												
	Section and Scantlings												
	Material												
* FORE AND AFTERS	Number												
	Section and Scantlings												
	Material												
HATCHES Thickness													
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? *Strake between Main and Bridge Sheerstrakes?*

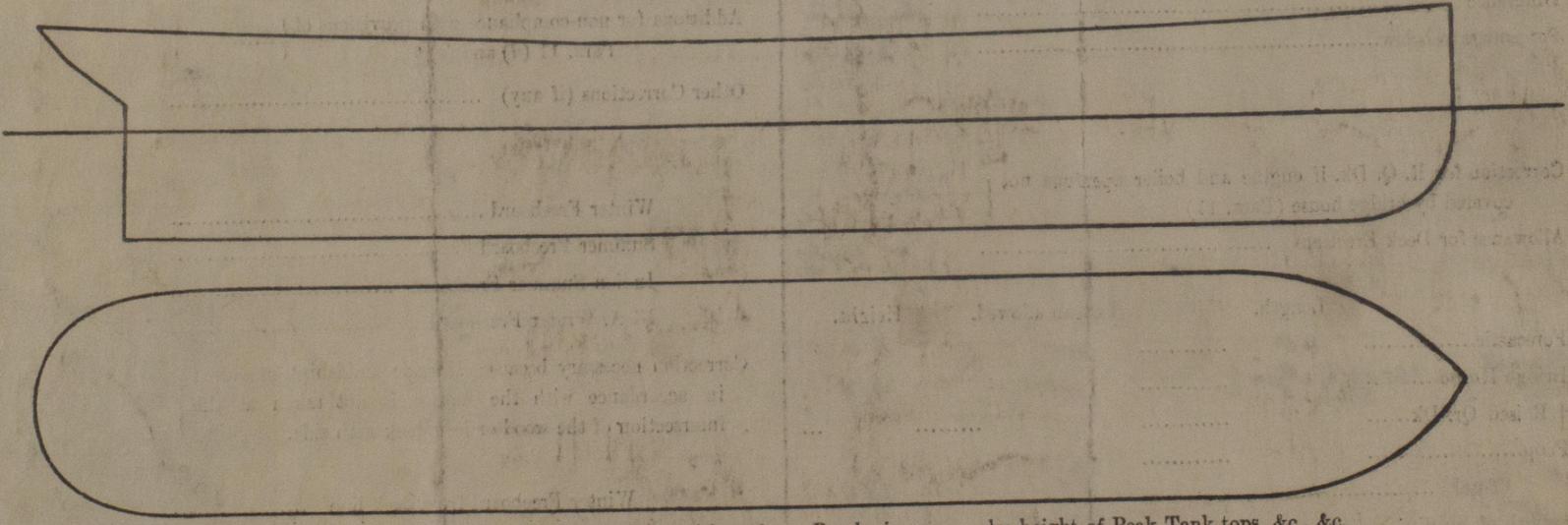
Delete the words *The Crew are, are not, berthed in the bridge house.*
 that do not apply *The arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory.*

Length of Bulwarks in well _____

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

Ft.	Tenths.	Ft.	Tenths.	No.	} Freeing Ports (each side of vessel) = _____ Sq. ft.
x		x			
x		x			

Total deficiency or excess = _____ 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 *N-Type Standard vessel carrying fuel oil in circular tanks. Duplicate of the same Builders Nos 589, 590 and 641 S.S. Inverlith, Inverurie and Invergoil Belfast Reports 8487, 8566 and 8820*

Owners _____
 Address _____

Fee £ 12 : 0 : 0 Received by me *See F.C. Report.*

