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OCT. 27 1920

Rpt. 11h
28075

Lloyd's Register of British & Foreign 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 Louth
Date of Survey 6th October 1920
Name of Surveyor J. Henderson

vers Hawthorn & Co. No. 180.

Ship's Name ARDENZA	Port of Registry and Nationality <u>Louth British</u>	Official Number <u>142025</u>	Gross Tonnage <u>933.31</u>	Date of Build <u>1920</u>	Particulars of Classification <u>+100A1 Contemplated</u>
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Registered dimensions from Ship's Register.	LENGTH <u>210.00</u>	BREADTH <u>31.7</u>	DEPTH <u>12.33</u>	UNDER DECK TONNAGE <u>639.98</u>
Length on LOADLINE.	<u>210.0</u>	Frame Depth Rule <u>3 1/2</u>	Ceiling Sheer <u>+58</u>	Peak Tanks <u>included in tonnage</u>
CORRECTED DIMENSIONS.	<u>210.0</u>	<u>31.25</u>	<u>12.97</u> <u>13.04</u>	<u>625.98</u>

Moulded Depth as measured...
14.52
14.534
14.5 3/4 used

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.....	<u>210.0</u>
Length in Table	<u>173.45</u>
Difference	<u>36.25</u>
Correction for 10ft., Table A.	<u>1.0</u> Table C.
× Difference divided by 10	<u>3.6</u> (if required.)
If 1/10ths length covered divide by 2	<u>+1 3/4</u>

Co-efficient of fineness..... .738 .742
Any modification necessary } .02 CDB
[Para. 4 (a) to (e)]* }
Co-efficient as corrected718 .72

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered674 +longer hatching with raised winch platform between
Thickness of usual wood deck, less stringer 3
-3

Sheer { Stem 60 } 102 ÷ 2 = 51 Mean
at { Sternpost 42 }
Sheer at 1/2 of the length from { Stem 35 } 60 ÷ 2 = 30 Mean
{ Sternpost 25 }
Gradual mean Sheer 52.76 ÷ .55 = 54.54
Standard mean Sheer [Table, Para. 18] 31.00 Correction
Difference..... 21.46 ÷ 4 = 5.44
§ If limited as Para. 18 (f)..... -5 1/2

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships. 31.3
Round of Beam 8
Normal round..... 1/8
Difference 8 ÷ 2 = 4
Proportion of Deck uncovered (Para. 19)

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

Rise in Sheer from amidships [Para. 18 (e)] { At front of bridge house..... ✓
At after end of forecastle ✓
Fall in Sheer } ÷ 2 = ✓
Para. 18 (d) }
Length uncovered Correction

Freeboard, Table A	<u>2. 3 1/2</u>
Correction for Sheer	<u>- 5 1/2</u>
Correction for Length	<u>+ 1 3/4</u>
Allowance for Deck Erections	<u>1. 11 3/4</u>
Correction for Round of Beam.....	<u>- 4 1/4</u>
Correction for fall in Sheer (if any).....	<u>1. 4 1/2</u>
Correction for Iron Deck (if required)	<u>- 3</u>
Other Corrections (if any)	<u>1. 1 1/2</u>
Winter Freeboard	<u>4. 10 1/2</u>
Summer Freeboard	<u>4. 8 1/2</u>
Indian Summer Freeboard	<u>✓</u>
N. A. Winter Freeboard	<u>✓</u>
Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the wood iron deck with side.	<u>1 1/2</u>
Winter Freeboard from deck line	<u>5. 0</u>
Summer " " "	<u>4. 10</u>
Indian Summer " " "	<u>✓</u>
N. A. Winter " " "	<u>✓</u>
Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11)	<u>+ 1</u>
Allowance for Deck Erections	<u>- 4 1/4</u>

ALLOWANCE FOR DECK ERECTIONS :—

Freeboard, Table C.....	<u>0. 6</u>
Correction for Length, if required (Para. 12, 13, and 14)	<u>✓</u>
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) }	<u>1. 10</u>
Difference	<u>1. 4</u>
Percentage as below.....	<u>51.17</u>
Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11)	<u>+ 1</u>
Allowance for Deck Erections	<u>- 4 1/4</u>

	Length.	Length allowed.	Height.
Forecastle.....	<u>26.75</u>	<u>26.75</u>	<u>7.0</u>
Bridge House	<u>✓</u>	<u>✓</u>	<u>✓</u>
+ Raised Qr. Dk.....	<u>114.91</u>	<u>114.91</u>	<u>3.9</u>
Poop.....	<u>✓</u>	<u>✓</u>	<u>✓</u>
Total	<u>141.66</u>	<u>141.66</u>	<u>✓</u>
Length of Ship	<u>210.0</u>	<u>210.0</u>	<u>= .674 *</u>
Corresponding percentage (Para. 11, 12, 13, or 14) }	<u>51.1</u>	<u>51.62</u>	<u>7</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	" " "	...

12.10.20

Winter Freeboard	<u>4. 10 1/2</u>
Summer Freeboard	<u>4. 8 1/2</u>
Indian Summer Freeboard	<u>✓</u>
N. A. Winter Freeboard	<u>✓</u>
Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the wood iron deck with side.	<u>1 1/2</u>
Winter Freeboard from deck line	<u>5. 0</u>
Summer " " "	<u>4. 10</u>
Indian Summer " " "	<u>✓</u>
N. A. Winter " " "	<u>✓</u>
Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11)	<u>+ 1</u>
Allowance for Deck Erections	<u>- 4 1/4</u>

* If the plating, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible.
† In vessels requiring 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.

† 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 should be reported.
MARKING FORM

002215-002221-0058

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RECEIVED 20 MAY 1924
P.T.O.

Do all the Frames extend to the top height in the Poop? Raised Quarter Deck? Bridge House? Forecastle? Rpt. 11b.

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

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

Give particulars of the means for closing the openings in Bulkhead *none*

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? *Steel*

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

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

Give thickness of plating; scantlings and spacing of Stiffeners

What is the height of the exposed Casings? Are suitable means provided for closing all openings in them in bad weather?

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*

Position and Size.	No. 1 - 22.6 x 14.6 x 19.6		No. 2 - 25.3 x 20.0		No. 3 - 24.4 1/2 x 17.9 x 19.6						
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	
COAMING.	Height above top of DECK	18"	24"	} do							
	Thickness	Sides.....	.44		.44						
		Ends.....	.44		.44						
WEATHER DECK WEB PLATES.	Number	Four	A 19x36 4x3x4 1/2	2 @ 2 @	A 20x36	(A) 18x36 4x3x4 1/2					
	Section and Scantlings	JL JL JL JL	B 18x36 4x3x4 1/2	JL JL	(4) 4x3x4 1/2	B 18x36 "					
	Material	Steel	C 17x32 4x3x4 1/2	JL JL	B 20x36	D 16x32 4x3x4 1/2	C 17x36 "				
			D 16x32 4x3x4 1/2	Steel	(4) 4x3x4 1/2	D 16x32 4x3x4 1/2	D 16x32 4x3x4 1/2				
* FORE AND AFTERS.	Number		none								
	Section and Scantlings										
	Material										
HATCHES Thickness	2 1/2"										
Remarks.....	White Pine										

* 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? _____

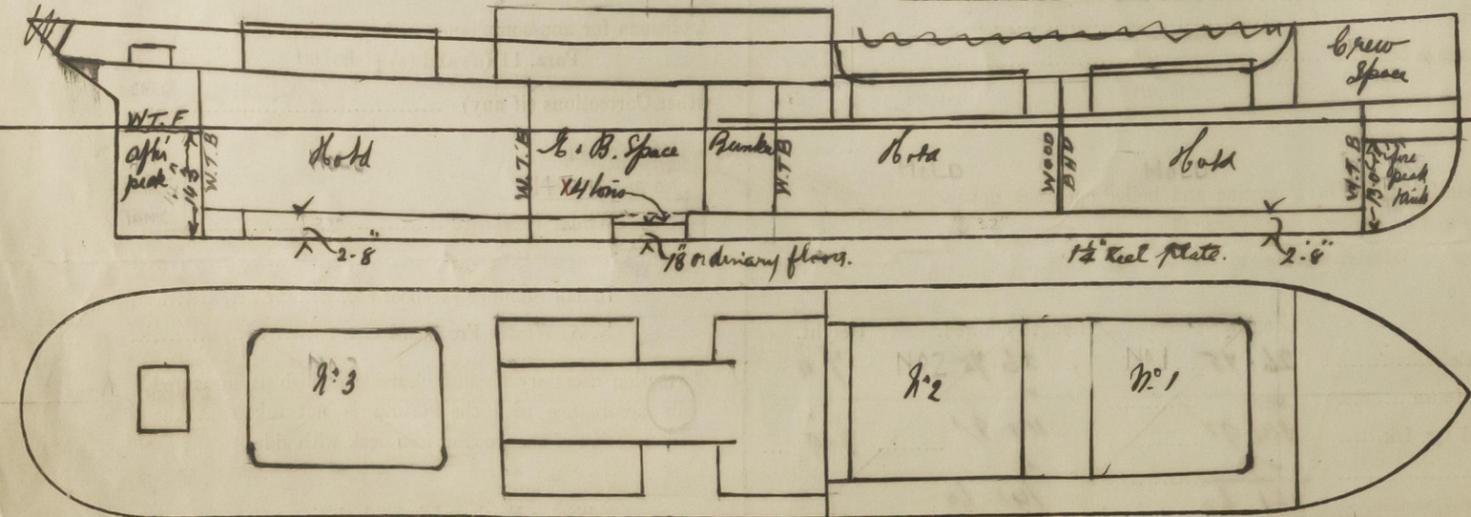
Delete the words { The Crew ~~are~~, are not, berthed in the bridge house.
 that do not apply { The arrangements to enable them to get backwards and forwards from their quarters are, ~~not~~ satisfactory.

Length of Bulwarks in well *69.4 68.4*

Area of Freeing Ports required by Para. 11 (e) each side of vessel = *13.80* Sq. ft.

Ft. Tenths. Ft. Tenths. No. } Freeing Ports = *14.62* Sq. ft.
 3.25 x 1.5 x 3 (each side of vessel)

Total deficiency or excess = *.94 82* 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 *Freeboard request form forwarded to London on the 24 June 1919. Facilities fitted for the crew to get to & from their quarters without descending into the well. Plan of Midship Section Profile herewith enclosed for reference. Please see letter 26/8/19.*

Owners _____
 Address _____
 Fee £ *2 : 2 : 0* Received by me _____



PARTICULARS OF GALLEY WITH T...
 Number...
 Registered dimensions from Ship's Register...
 Length on...