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FRI. JUL 4 1924

Index No. 31269
(For London Office only.)

Rpt. 11b
Preliminary
31269

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

No. 43790.

AT. COPY WRITER

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 Glasgow
Date of Survey 3.7.24
Name of Surveyor E. Brimblecombe

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
<u>S.S. "GEM."</u>	<u>Glasgow British</u>	<u>147915</u>	<u>639.56</u>	<u>1924</u>	<u>+100 A1 contemplated</u>
Number in Register Book					

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	<u>175.30</u>	<u>27.65</u>	<u>11.05</u>	<u>427.89</u>
Length on LOADLINE.	<u>174.75</u>	Frame Depth <u>5 1/2</u> Rule " <u>3 1/2</u> Sheer <u>4.48</u> <u>2</u> <u>22.33</u>	Ceiling <u>fixed</u> <u>Level Tank</u> <u>To Tank Top</u> <u>11.29</u>	Peak Tanks } <u>Included</u>
CORRECTED DIMENSIONS.	<u>174.75</u>	<u>27.32</u>	<u>11.44</u>	<u>427.39</u>

Moulded Depth as measured..... 13'-4"
 Addition for Keel below base line for draught record..... 7 inches.

NOTE.— If the depth is measured when vessel is afloat, the details of measurement should be reported.

13-4
82
14-0
3-9
11-3

CORRECTION FOR LENGTH.

Length of Ship on Loadline.....	<u>174.75</u>
Length in Table	<u>160.0</u>
Difference	<u>14.75</u>
Correction for 10ft., Table A.	<u>.9</u> Table C.
× Difference divided by 10	<u>1.33</u> (if required.)
If $\frac{1}{10}$ ths length covered divide by 2	<u>.66</u>
	<u>+ 3/4</u>

CORRECTION FOR IRON DECK.

Proportion covered, if less than $\frac{1}{10}$ ths length covered	<u>1</u>
Thickness of usual wood deck, less stringer	<u>3</u> - <u>3</u>

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships.....	<u>27'-6"</u>
Round of Beam	<u>8 1/2"</u>
Normal round.....	<u>6.87</u>
Difference	<u>1.68 ÷ 2 = .81</u>
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..... .76
 Any modification necessary }
 [Para. 4 (a) to (e)]* }
 Co-efficient as corrected74

Sheer { Stem..... 60 } $90 \div 2 = 45$... Mean
 { Sternpost ... 30 } $\frac{36 \times 14.30}{.48}$
 Sheer at $\frac{1}{3}$ of the length from { Stem 32.25 } $49.25 \div 2 = 24.625$ Mean
 { Sternpost 170 } $\frac{.55 \times 44.77}{.48}$
 Actual mean Sheer 44.77
 Standard mean Sheer [Table, Para. 18] 27.47 Correction
 Difference..... 17.30 $\div 4 = 4.32$
 If limited as Para. 18 (f) - 4 1/4

Increase in Sheer { At front of bridge house..... }
 { At amidships..... }
 [Para. 18 (e)] { At after end of forecastle..... }
 Allowance in Sheer { }
 [Para. 18 (d)] { } $\div 2 =$
 Length uncovered Correction

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C.....	<u>0. 4 3/4</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. 8 1/4</u>
Difference	<u>1. 3 1/2</u>
Percentage as below.....	<u>67.37</u>
	<u>- 10.43</u>
Allowance for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11)	<u>+ .33</u>
Allowance for Deck Erections	<u>- 10.10</u>
	<u>- 10"</u>

	Length.	Length allowed.	Height.
Forecastle.....	<u>26.42</u>	<u>24.38</u>	<u>7'-0"</u>
Bridge House	<u>11.0</u>	<u>11.00</u>	<u>7'-0"</u>
Raised Qr. Dk.....	<u>101.33</u>	<u>101.33</u>	<u>4'-0"</u>
Total	<u>138.75</u>	<u>136.71</u>	<u>. 482</u>
Percentage of Ship		<u>174.75</u>	
Percentage	<u>67.37%</u>		

Freeboard, Table A	<u>2. 0 1/2</u>
Correction for Sheer	<u>- 4 1/4</u>
	<u>1. 8 1/4</u>
Correction for Length	<u>+ 3/4</u>
	<u>1. 9</u>
Allowance for Deck Erections	<u>- 10</u>
	<u>0. 11</u>
Correction for Round of Beam.....	<u>- 1/4</u>
	<u>0. 10 3/4</u>
Correction for fall in Sheer (if any).....	<u>- 3</u>
Correction for Iron Deck (if required)	<u>0. 4 3/4</u>
Additions for non-compliance with provisions of Para. 11 (d) and (e) †	
Other Corrections (if any)	<u>Height of R.O.D + 4.0</u>
	<u>4. 4 3/4</u>

Winter Freeboard	<u>4. 4 3/4</u>
Summer Freeboard	<u>4. 6</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 or steel deck with side. 1.19 $1 1/4$	
Winter Freeboard from deck line	<u>4. 9</u>
Summer " " " "	<u>4. 7 1/4</u>
Indian Summer " " " "	<u>'</u>
N.A. Winter " " " "	<u>'</u>
Raised Quarter " " " "	<u>'</u>

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

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

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frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside ceiling should be reported if possible.

† 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
14 JUL 1924

RECEIVED
11 MAR 1931
Lloyd's Register

002592-002601-0099

Do all the Frames extend to the top height in the Poop? Raised Quarter Deck? *Yes* Bridge House? *Yes* Forecastle? *Yes*
 To what height do the Reverse Frames extend? *none (B.A. frames)*
 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? *Yes* Has the Bridge House an efficient Bulkhead at the fore end? *Yes*
 Give particulars of the means for closing the openings in Bulkhead *none* *No openings*
 What is the thickness of the Bridge Front plating? *.30* and Coaming plate? *.30*
 Give scantlings and spacing of the Stiffeners *6 x 3 x .34 B.A. spaced 30"*
 Are bracket plates fitted at each end of the Stiffeners? *Lugs at top, bolts at bottom* Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? *Yes*
 Has the Bridge House an efficient Iron Bulkhead at the after end? *Yes*
 How are the openings closed? *none*
 Is the Forecastle at least as high as the main or top-gallant rail? *Yes* Has the Forecastle an efficient Iron ~~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? *Enclosed by Strong Steel Casings*
 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 *.28; 4 x 2 1/2 x .28 O.A. spaced 30"*
 What is the height of the exposed Casings? *6'-6"* 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*

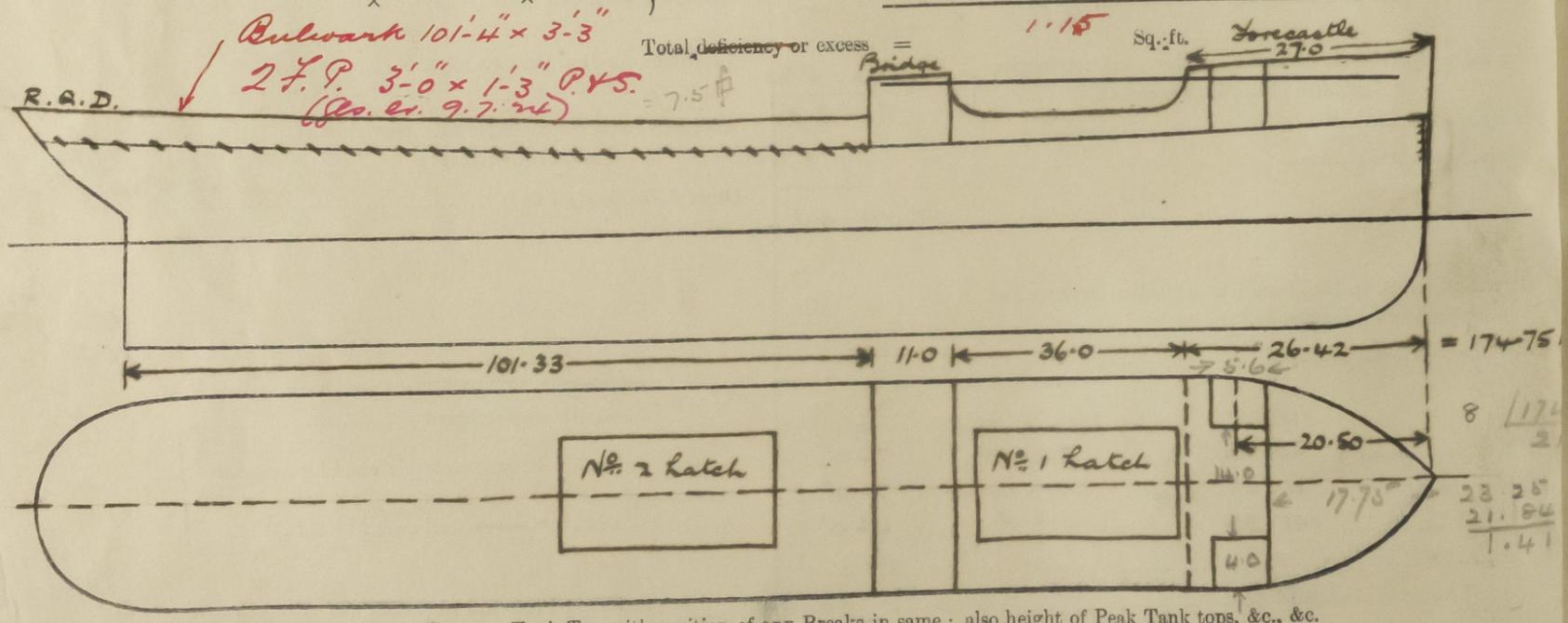
Position and Size.	No. 1. 33'-0" x 16'-0"		No. 2. 33'-0" x 17'-0"		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
	Item.	Ship.	Rule.	Ship.						
COAMING.	Height above top of DECK	36"		36"						
	Thickness	Sides	as approved.	.42	as approved.					
		Ends		.42		.42				
SHIFTING BEAMS OR WEB PLATES.	Number	5		5						
	Section and Scantlings	.34 x 1 1/4" plate	as approved.	.35 x 1 1/4" plate	as approved.					
	Material	3 1/2 x 3 x .42 angles		4 x 3 x .43 angles						
* FORE AND AFTERS.	Number	none	fitted as approved.	none	fitted as approved.					
	Section and Scantlings									
	Material									
HATCHES Thickness		2 1/2"		2 1/2"						
Remarks	Sides deck stiffened by 7" x 3" x .40 B.A.									

* 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? _____ 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 *36'-0"* Height *4'-3"* Area = *1538 sq. ft.*
 Area of Freeing Ports required by Para. 11 (e) each side of vessel = *10.1* Sq. ft.
 Ft. Tenths. Ft. Tenths. No. } Freeing Ports = *11.25* Sq. ft.
2.5 x 1.5 x 3 (each side of vessel)
 Total deficiency or excess = *1.15* 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 *Application form enclosed, together with midship Section Profile for reference.*

Builder's name and yard number *Scott & Sons, Bowling. No. 295*

Names of sister vessels

Owners *William Robertson,*
 Address *Glasgow.*

Fee £ *4 : 0 : 0*

Received by me *See F. C. Report*

