

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

A 44614

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 *25.4.25*
Name of Surveyor *Walter Rowntree*

No. 509 plus Brown 16.0
Ship's Name *T.S.S. ST. JULIAN*
Number in Register Book

Port of Registry and Nationality *U.K.*
Official Number *148585*
Gross Tonnage *2000*
Date of Build *1925*

Particulars of Classification *Contemplated*
+100A1 with full correspondence to a moulded draft of 12-11" for channel service Weymouth & Channel Islands

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	<i>282.2</i>	<i>40.05</i>	<i>16.35</i>	<i>1115.98</i>
Length on LOADLINE.	<i>280.0</i>	Frame Depth $3\frac{1}{2}$ Rule $2\frac{1}{2}$ Sheer $4\frac{1}{2}$	Ceiling $+0.6$ Peak $+5.7$ ER 1.2 Tanks	
CORRECTED DIMENSIONS.	<i>280.0</i>	<i>40.05</i>	<i>16.52</i>	<i>1119.88</i>

Moulded Depth as measured..... *17.0* to main deck
2" composition on 2" stringer
Addition for Keel below base line for draught record..... *1.18* inches.

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

Co-efficient of fineness..... *.67 - 614*
Any modification necessary [Para. 4 (a) to (e)]*
Co-efficient as corrected..... *.68 lowest in table*

CORRECTION FOR LENGTH.

Length of Ship on Loadline.....	<i>280.0</i>
Length in Table	<i>202.5 204</i>
Difference	<i>77.5 76</i>
Correction for 10ft., Table A.	<i>1.1</i> Table C.
× Difference divided by 10	<i>8.36</i> (if required.)
If $\frac{1}{10}$ ths length covered divide by 2	<i>4.18 + 4 1/4 + 5</i>

Sheer { Stem..... *60* } $8\frac{1}{2} \div 2 = 40\frac{3}{4}$... Mean
at { Sternpost ... *2 1/2* }
Sheer at $\frac{1}{2}$ of the length from { Stem *34 7/8* } $46\frac{1}{2} \div 2 = 23\frac{1}{4}$... Mean
{ Sternpost *11 5/8* } $\div 5.5 = 42.27$
Gradual mean Sheer *42.27* ... *41.57* corrected
Standard mean Sheer [Table, Para. 18] *38.40* Correction
Difference..... *3.871* $\div 4 = .87$
§ If limited as Para. 18 (f) *7/8 - 3/4*

CORRECTION FOR IRON DECK.
Proportion covered, if less than $\frac{1}{10}$ ths length covered *2" Composition on 40 stringer*
Thickness of usual wood deck, less stringer *3 1/2*
allowed in report table - 1 1/2"

Rise in Sheer { At front of bridge house..... }
from amidships { At after end of forecastle

Fall in Sheer { Para. 18 (d) } $\div 2 =$ ✓
Length uncovered Correction

CORRECTION FOR ROUND OF BEAM.
Breadth at Gunwale amidships..... *40.0*
Round of Beam *11.0*
Normal round..... *10.0*
Difference $\div 2 =$ *1/2*
Proportion of Deck uncovered (Para. 19) *covered.*

ALLOWANCE FOR DECK ERECTIONS :—
Freeboard, Table C..... *0' 8 1/2* ✓
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) *2.2 3/4 9/4*
Difference *2 - 0 3/4*
Percentage as below..... *87.1%*
21.52

Freeboard, Table A *2.0 7/2 10*
Correction for Sheer *- 7/8 3/4*
Correction for Length *+ 5 4 1/4*
Allowance for Deck Erections *- 1.5 3/4 9/2*
Correction for Round of Beam..... ✓
Correction for fall in Sheer (if any)..... ✓
Correction for Steel Deck (if required) *- 1 1/2 2 1/2*

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) *1 - 8 1/2*
Allowance for Deck Erections *7 - 8 1/4*

Additions for non-compliance with provisions of Para. 11 (d) and (e) †
Other Corrections (if any) *Designed draft + 2.95 3.0 3/4*
To correspond with a designed draft of 12-11" (moulded) *4.5 4.0 3/4*
Height of Summer Deck *7.8*
Winter Freeboard *11.11*
Summer Freeboard *11.0 1/2*
Indian Summer Freeboard *11.0 1/4*
N. A. Winter Freeboard *11.0*
4" 3/4

	Length.	Length allowed.	Height.
Forecastle.....	<i>188.0 closed</i>	<i>194.0</i>	<i>7-8</i>
Bridge House	<i>8.0 open</i>	<i>190.0</i>	
Poop.....	<i>63.0 closed</i>	<i>64.0</i>	<i>7-8</i>
	<i>4.0 open</i>	<i>63.40</i>	
Total	<i>258.0</i>	<i>254.40</i>	<i>.921</i>
Length of Ship	<i>280.00</i>		<i>.90%</i>

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 1/4 1 3/4*
Winter Freeboard from deck line *12.0*
Summer " " " *11.9 1/2*
Indian Summer " " " *11.0 1/4*
12.0
4" 5 11.4 1/2 11.5 For all seasons

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line

Fresh Water Line	above centre of Disc	<i>3 - 4 1/2</i>
Indian Summer Line	" " "	<i>2 1/2</i>
Winter Line	below " "	<i>2 1/2</i>
Winter North Atlantic Line	" " "	<i>2 1/2</i>

† 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 sternpost. In vessels having poops and forecastles, it means the sheer measured at points distant one-eighth of the vessel's length from stem and sternpost.

† 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.

29 APR 1925

005321-005324-0156

Copy to Sud. 1.5.25
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Do all the Frames extend to the top height in the Poop? *yes* Raised Quarter Deck? Bridge House? *yes* Forecastle? *yes*
 To what height do the Reverse Frames extend? *alternate to main & lower decks, all to main deck in 8 & 9 ft. 11*
 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 *Hinged doors*
 Is the Poop or Raised Quarter Deck connected with the Bridge House? *no* Has the Bridge House an efficient Bulkhead at the fore end? *joined*
 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? *yes*
 How are the openings closed? *Hinged doors*
 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? *joined to*
 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 Bridge*
 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? *7-6 above from deck* 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. 8-0 x 8-0		No. 2. 10-0 x 10-0		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
	Ship.	Rule.	Ship.	Rule.						
COAMING.	Height above top of DECK	<i>2 1/2</i>	<i>2 1/2</i>							
	Thickness	Sides.....	<i>.34</i>	<i>.34</i>						
		Ends.....	<i>.34</i>	<i>.34</i>						
SHIFTING BEAMS OR WEB PLATES.	Number.....	<i>none</i>	<i>one</i>							
	Section and Scantlings.....		<i>10x30</i>	<i>3x3x30</i>						
	Material.....									
* FORE AND AFTERS.	Number.....	<i>one</i>	<i>none</i>							
	Section and Scantlings.....	<i>2 1/2 x 2 1/2 x 38</i>								
	Material.....	<i>8x44</i>								
HATCHES Thickness.....	<i>2 1/2</i>		<i>2 1/2</i>							
Remarks.....										

Plans enclosed for reference which please return - midship section, profile, 2 plans of wash ports & plan gang way etc. = 5 plans -
 The Builders ask that if any error of draft can be ascertained it will be granted.

* 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.) *none in vicinity of W.L.*

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? *.46* Strake between Main and Bridge Sheerstrakes? *.44*

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.

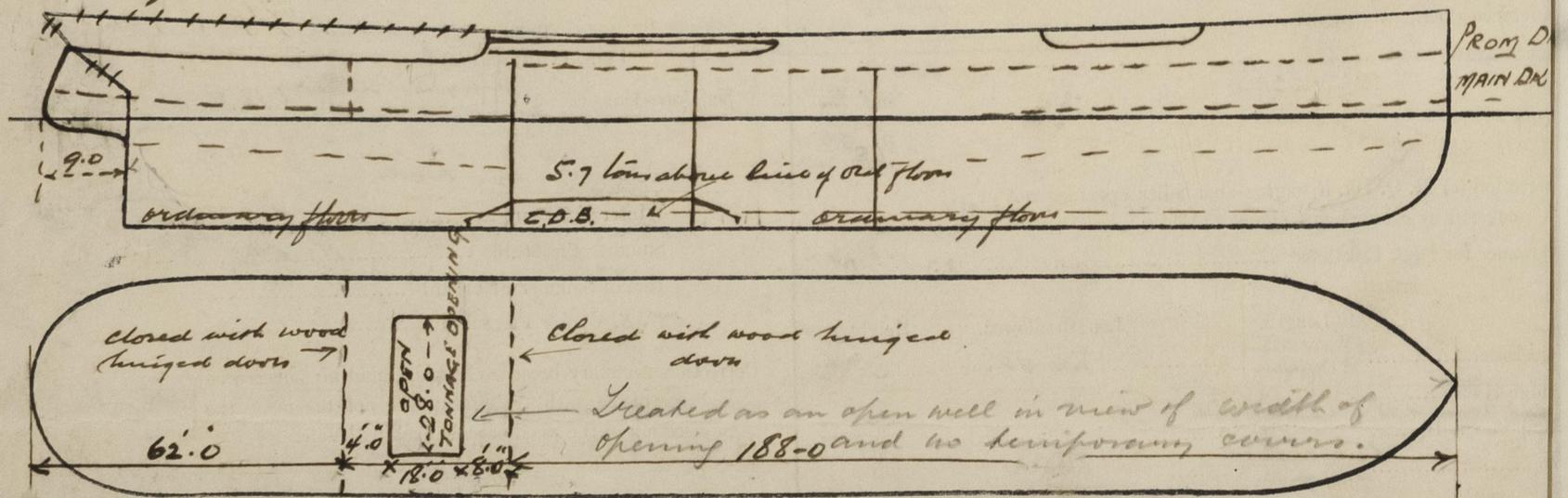
Length of Bulwarks in well *30-0*

Area of Freeing Ports required by Para. 11 (e) each side of vessel = *9.5* Sq. ft.

Ft. Tenths. Ft. Tenths. No. } Freeing Ports = *10.5* Sq. ft. *as approved at some request. See plan*
2.5 x *1.35* x *3* } (each side of vessel)

Total deficiency or excess = *1.0* Sq. ft.

Scuppers in the vicinity of W.L. fitted with non return valves



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

Builder's name and yard number *John B. Mansel & Co. Ltd. No. 509*

Names of sister vessels

Owners *Great Western Ry. Co. Ltd.*

Address *London, W.2.*

Fee £ *6* : 0 : 0 Received by me *See F.C. Report*



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