

6 OCT 1927 Index No. 32506
(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

No. 92636.

RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH RECASTLES, SHORT POOPS AND BRIDGE HOUSES DISCONNECTED, OR WANT FORECASTLES HAVING LONG POOPS, OR RAISED QUARTER DECKS CONNECTED WITH BRIDGE HOUSES, OR OTHERWISE.

Port of Survey Northwich
Date of Survey During Construction
Name of Surveyor Ch. Deam & A.W. Jackson

"SWAZI"
Ship's Name.
"ZULU"

Port of Registry and Nationality.
not yet known

Official Number.

Gross Tonnage.

Date of Build.
1927

Particulars of Classification.
Contemplated 100A1.

LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
<u>99.8'</u>	<u>22.4'</u>	<u>9.8'</u>	<u>179.81</u>
<u>99.32'</u>	Frame Depth <u>4</u> Rule <u>3 3/4</u> <u>2 = -.17</u> <u>to spar</u> Ceiling <u>+33</u>	Ceiling <u>2 1/2</u> " Sheer <u>fitted</u> <u>+33</u> <u>Deck 11.5</u> <u>floor</u> } <u>10.0</u>	Peak <u>Included</u> Tanks
<u>99.32</u>	<u>22.56</u>	<u>10.33</u>	<u>179.81</u>

Moulded Depth as measured... 10'-6"
Addition for Keel below base line for draught record... .79 inches.

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

of fineness..... .777
ation necessary (a) to (e)]*
as corrected78

CORRECTION FOR LENGTH.

Length of Ship on Loadline.....	<u>99.32'</u>
Length in Table	<u>126.00</u>
Difference	<u>26.68</u>
Correction for 10ft., Table A.	<u>.9</u>
Table C.	<u>.5</u>
× Difference divided by 10	<u>2.40</u> (if required.)
If $\frac{1}{10}$ ths length covered divide by 2	<u>-2 1/2</u>
	<u>-1 1/4</u>

Stem 21"
Sternpost 14"
 $35 \div 2 = 17 1/2$ Mean
 17.50
Correction $5.54 \div 4 = 1.385$
 $-1 1/2$

CORRECTION FOR IRON DECK.
Proportion covered, if less than $\frac{1}{10}$ ths length covered46
Thickness of usual wood deck, less stringer 2 3/4
no wood sheathing on upper deck 1-26 -1 1/4

At front of bridge house.....
At after end of forecastle.....
Correction

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships.....	<u>22.33'</u>
Round of Beam	<u>6"</u>
Normal round.....	<u>5.58</u>
Difference	<u>.42</u> $\div 2 =$ <u>.21</u>
Proportion of Deck uncovered (Para. 19)	<u>.54</u>
	<u>.113</u>

ALLOWANCE FOR DECK ERECTIONS:—

Table C.....	<u>0'-3"</u>
or Length, if required (Para. 12, 13, and 14)	<u>+ 1/4"</u>
Table A, corrected for shear and for length, if required (Para. 12, 13, and 14)	<u>1'-3 1/2"</u>
below.....	<u>1'-1 3/4"</u>
	<u>19.87%</u>
	<u>2.73</u>

Freeboard, Table A	<u>18.00</u>	<u>1'-6"</u>
Correction for Sheer	<u>- 1.385</u>	<u>- 1 1/2"</u>
	<u>16.615</u>	<u>1'-4 1/2"</u>
Correction for Length	<u>- 2.40</u>	<u>- 2 1/2"</u>
	<u>14.215</u>	<u>1'-2"</u>
Allowance for Deck Erections	<u>- 2.73</u>	<u>- 2 3/4"</u>
	<u>11.485</u>	<u>0'-11 1/4"</u>
Correction for Round of Beam.....	<u>- .113</u>	
	<u>11.372</u>	

R. Q. Dk. if engine and boiler openings not by bridge house (Para. 11)
Deck Erections -2 3/4"

Correction for fall in Sheer (if any).....		
Correction for Steel Deck (if required)	<u>- 1.26</u>	<u>- 1 1/4"</u>
	<u>10.11</u>	<u>0'-10"</u>
Additions for non-compliance with provisions of Para. 11 (d) and (e) †		
Other Corrections (if any)		
Winter Freeboard	<u>10.71</u>	<u>0'</u>
Summer Freeboard	<u>1 1/4</u>	<u>0'</u>
Indian Summer Freeboard		
N.A. Winter Freeboard		

Length.	Length allowed.	Height.
<u>13'-7" × 4.5</u>	<u>10.18</u>	<u>4'-6"</u>
<u>32'-1 1/2" × 2.25</u>	<u>24.09</u>	<u>2'-3"</u>
<u>4.5-8 1/2 = .460</u>	<u>34.27 = .345</u>	
<u>99.32</u>	<u>99.32 = 2.76</u>	
percentage $22.08 \times [6 + (\frac{2.25 \times 4}{3})] = 19.87\%$		

Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the ~~wood~~ steel deck with side.
 $6 - 6 \left(\frac{10.16}{11.16} \right) = 6 - 4.97 = 1.03$
Winter Freeboard from deck line 0'-11"
Summer " " " " 0'-9 3/4"
Indian Summer " " " "
N.A. Winter " " " "

RD 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	" " "

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.

skin planking, or ceiling are of unusual thickness the breadth of vessel to inside should be reported if possible.
allowance for deck erections under Para. 11 where the sheer drops abaft amidship of the R.Q.D. is to be taken from the level of the top of the amidship beam.
vessels the total standard mean sheer means the sheer measured at the stem and sternposts having poops and forecastles, it means the sheer measured at points distant from the vessel's length from stem and sternposts.

Do all the Frames extend to the top height in the Loop? Raised Quarter Deck? *yes* Bridge House?

To what height do the Reverse Frames extend? *Steel*

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 *no openings*

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? *R.Q.D.E.*

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? *R.Q.D.E.*

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 *.25 ; 3 x 2 1/2 x 1/20 @ 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.		In Well 38'-0" x 12'6"									
Item.		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING	Height above top of DECK	2'6"									
	Thickness	Sides	.40"								
		Ends	.40"								
SHIFTING BEAMS OR WEB PLATES	Number	3 angles 3x3x.42									
	Section and Scantlings	1/2" 20" x .38"									
	Material	steel									
* FORE AND AFTERS	Number	3, side									
	Section and Scantlings	8 1/2" x 8" 8 1/2" x 8"									
	Material	Pitch Pine									
HATCHES	Thickness	2 1/2"									
Remarks											

* 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?

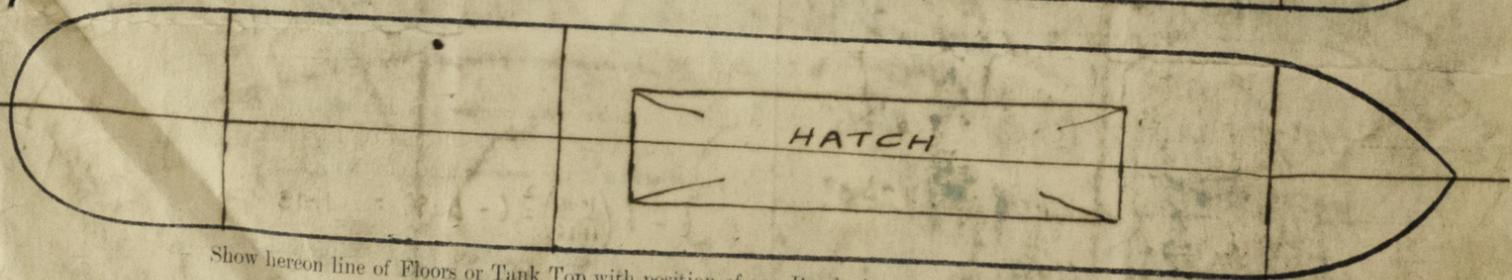
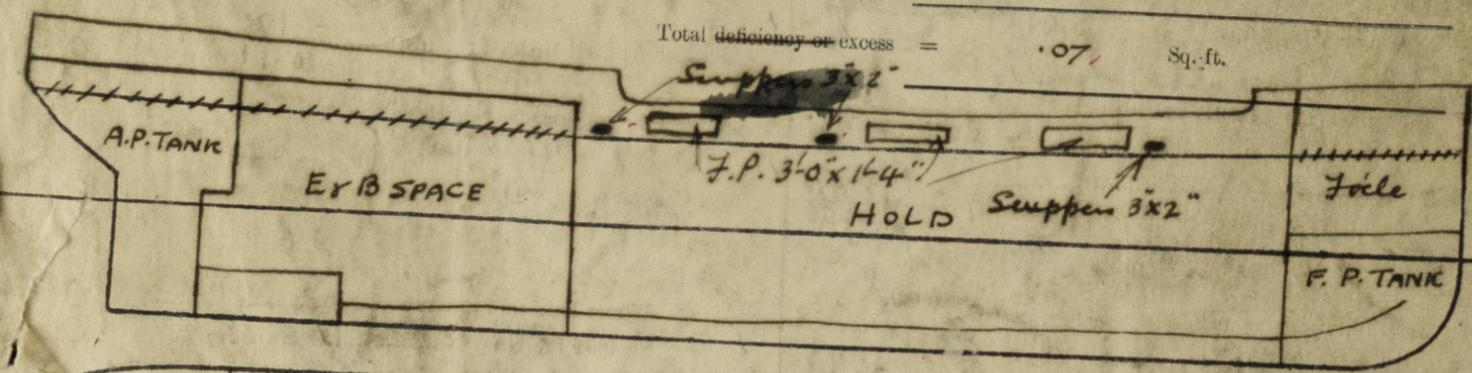
Delete the words *The Crew are, berthed in the bridge house. Foils*
 that do not apply *The arrangements to enable them to get backwards and forwards from their quarters are, satisfactory.*

Length of Bulwarks in well *54'-0"*

Area of Freeing Ports required by Para. 11 (e) each side of vessel = *11.9* Sq. ft.

Ft. Tenth.	Ft. Tenth.	No.	} Freeing Ports (each side of vessel) = <i>11.97</i> Sq. ft.
<i>3 - 0</i>	<i>1.33</i>	<i>3</i>	

Total deficiency or excess = *.07* 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 *The vessel is intended for service at South African Ports, and will sail out under own steam after being suitably loaded up.*

Builder's name and yard number *W. J. Yarwood & Sons Ltd.*

Names of sister vessels

Owners *R. P. Houston & Co.*

Address *4 St. Mary Axe, London E.C.3.*

Fee £ *1 : 16 : 8 approx.*

Received by me

