

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

B.T. COPY WRITTEN.

PARTICULARS RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH 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 **NEWCASTLE-ON-TYNE.**
Date of Survey **29-10-1926**
Name of Surveyor **J. Howden**

Ship's Name: **Readhead, Sons No 482**
S.S. SOUTHGATE
Ex **ARABISTAN**
Number in Register Book **87954**
Port of Registry and Nationality: **London British**
Official Number: **149746**
Gross Tonnage: **1926**
Date of Build: **1926**
Particulars of Classification: **+100 A1 with freeboard (contemplated)**

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	400'-0"	55.2	25.75	4543.67
Length on LOADLINE.	400.0	Frame Depth $\frac{1}{2}$ Rule " 6"	Ceiling + .20 Sheer + .68	Peak Tanks } Includ
CORRECTED DIMENSIONS.	400.0	54.2	26.83	4543.67

Moulded Depth as measured..... **28'-3"**
Addition for Keel below base line for draught record..... **2.1** inches.

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

28'-3
1'-1
29'-4
3'-7
28'-9

CORRECTION FOR LENGTH

Length of Ship on Loadline.....	400
Length in Table	339
Difference	61
Correction for 10ft., Table A.	1.545 Table C.
× Difference divided by 10	5.785 (if required.)
If $\frac{1}{10}$ ths length covered divide by 2	4.3542

+4 1/2"

CORRECTION FOR IRON DECK.

Proportion covered, if less than $\frac{1}{10}$ ths length covered	✓
Thickness of usual wood deck, less stringer	-3 1/2"

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships.....	52'-3"
Round of Beam	13
Normal round.....	13
Difference	0
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..... **.481**
Any modification necessary [Para. 4 (a) to (e)]* **Cell Dble Bottom .02**
Co-efficient as corrected **.46**

Sheer { Stem..... **120"** } $177 \div 2 = 88.5$ Mean **36 | 31.59**
 { Sternpost ... **54** } **.88**
Sheer at $\frac{1}{2}$ of the length from { Stem **59 1/2"** } $89.75 \div 2 = 44.875$ Mean
 { Sternpost **30 1/4"** } **+ 35 = 81.59**
Gradual mean Sheer **81.59**
Standard mean Sheer [Table, Para. 18] **50.0**
Difference..... **31.59** $\div 4 = 7.90$
If limited as Para. 18 (f) **✓**
= -8"

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

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C.....	3'-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) }	6'-2 1/2"
Difference	2'-5 1/2"
Percentage as below.....	94.2%
Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) }	✓
Allowance for Deck Erections	2'-8 3/4"

Freeboard, Table A	6-10 1/2
Correction for Sheer	-8"
Correction for Length	6-2 1/2
Allowance for Deck Erections	+4 1/2
Correction for Round of Beam.....	6-6 1/2
Correction for fall in Sheer (if any).....	2-3 3/4
Correction for Steel Deck (if required)	4-8 3/4
Additions for non-compliance with provisions of Para. 11 (d) and (e) †	3-11 1/4
Other Corrections (if any)	✓
Winter Freeboard	3-11 1/4
Summer Freeboard (4: 5 3/4)	5 3/4
Indian Summer Freeboard	3-5 1/2
N. A. Winter Freeboard	3-8 2 1/4

Castle.....	Length.	Length allowed.	Height.
Bridge House } 354.42 + 3(2.4)	356.16	8'-0"	
used Q. Dk. } 4'-8"			
..... } 38.7			
..... } 36.25 + 1/2(2.4)	37.41	8'-0"	
Total	393.57		

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 3/4**

Winter Freeboard from deck line	4'-1 1/2"
Summer " " " "	3'-7 1/4"
Indian Summer " " " "	3'-1 1/2"
N. A. Winter " " " "	✓

Corresponding percentage (Para. 11, 12, 13, or 14) **94.2%**
DIFF $\frac{400 - 393.57}{400} = 1.6275$
 $\frac{393.57 + 400}{400} = 99.2$

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Steel) Deck:—
Fresh Water Line above centre of Disc **6 3/4"**
Indian Summer Line " " " " **5 1/2"**
Winter Line below " " " " **6"**
Winter North Atlantic Line " " " " **5 1/2"**

Winter Freeboard from deck line **3'-7"**
Summer " " " " **6 3/4"**
Indian Summer " " " " **5 1/2"**
N. A. Winter " " " " **5 1/2"**

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 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, and also the usual load draft forward and aft should be reported.

Tonnage Opening Fitted.

163 + 44.3 respectively
1 - NOV 1926

Do all the Frames extend to the top height in the Poop? *Shelter Dk. Alternately Raised Quarter Deck?* Bridge House? Forecastle?

To what height do the Reverse Frames extend? *See Plan Bull 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 *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?

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

How are the openings closed? *Storm boards in riveted channels*

Is the Forecastle at least as high as the main or top-gallant rail? Has the Forecastle an efficient Iron or Wood Bulk'd. at after end?

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

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 *BR .32 ER .28 Stiffeners 4x3x.42 Spacing BR 2-9*

What is the height of the exposed Casings? *7'-2 1/2* Are suitable means provided for closing all openings in them in bad weather? *Yes*

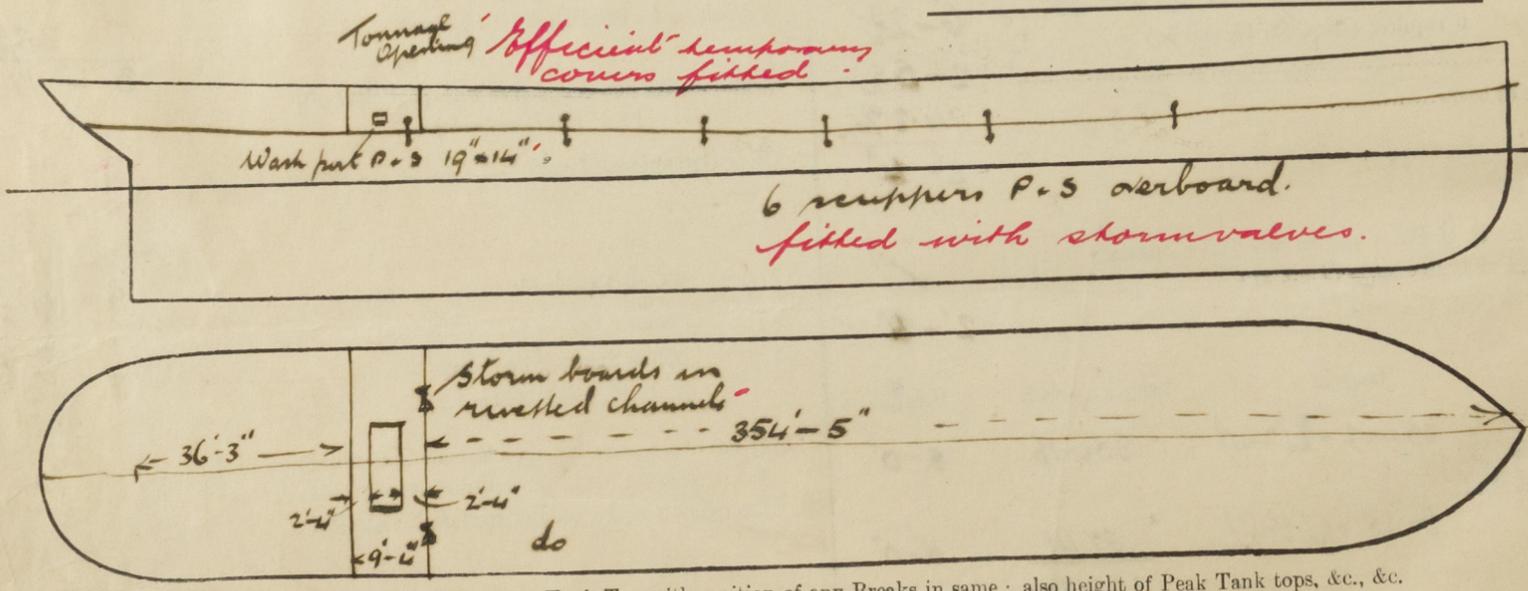
Are the Weather Deck Hatchways efficiently constructed and at least equal to the requirements of Section 28 of the Rules for 1904-5? Give particulars below:— *Yes*

Position and Size.	N°1 28'-0" x 19'-11 1/2"		N°2 30'-4" x 19'-11 1/2"		N°3 18'-8" x 14'-0"		N°4 30'-4" x 19'-11 1/2"		N°5 28'-0" x 19'-11 1/2"	
	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING * Height above top of DECK	3 1/2		3 1/2		3 1/2		3 1/2		3 1/2	
	4 1/4		4 1/4		4 1/4		4 1/4		4 1/4	
Thickness Sides.....	4 1/4		4 1/4		4 1/4		4 1/4		4 1/4	
	4 1/4		4 1/4		4 1/4		4 1/4		4 1/4	
SHIFTING BEAMS OR WEB PLATES	Four		Five		Three		Five		Four	
	7 1/2" 20" to 10" x 3/8" plate		10" to 10" x 3/4" plate		11" to 6" x 3/8" plate		As for N°2		16" to 10" x 3/4" plate	
	4 L's 4 x 3 x 4 1/4		4 L's 4 x 3 x 4 1/4		4 L's 3 x 3 x 4 1/2				4 L's 4 x 3 x 4 1/4	
* FORE AND AFTERS.	None		None		None		None		None	
	None		None		None		None		None	
	None		None		None		None		None	
HATCHES Thickness	2 1/2		2 1/2		2 1/2		2 1/2		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? *.66* Strake between Main and Bridge Sheerstrakes? *.58* See plan

Delete the words } The Crew are, ~~not~~, berthed in the ~~bridge house~~. *poop*
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 = Sq. ft.
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.
1.42 x 1.17 x 1
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 *This vessel has been built in an approved*
Builder's name and yard number *John Readhead & Son N° 482*
Names of sister vessels *For plans see copies retained in London*
Owners *Messrs Turnbull Scott*
Address

Fee £ 10 : 0 : 0
Will be charged with 1st entry.
Received by me *See F.C. Rpt.*

