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(For London Office only.)

Lloyd's Register of Shipping. SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having Shelter Deck & Forecastle

Port of Survey 5th

(Type of Superstructures.)

Date of Survey 15/ Aug/ 1932

Ship's Name

Nationality and Port of Official Number

Gross Tonnage

Date of Build

Port Melbourne

British
London

132046

9142

1914-1

Name of Surveyor R. H. H. H.

Moulded Dimensions: Length 499.5 Breadth 63.0 Depth 36.6

Moulded displacement at moulded draught = 85 per cent. of moulded depth 21298 tons

Coefficient of fineness for use with Tables 763

Particulars of Classification

+100 A1

Shelter Dk. with freeboard
SS on 10.3.14.26
SS on 10.1.30

Depth for Freeboard (D)

Moulded depth 36.80

Stringer plate55

Sheathing on exposed deck Shelter Dk 34"
 $T \left(\frac{L-S}{L} \right) =$ Upper Nil

Depth for Freeboard (D) = 36.55

Depth correction

(a) Where D is greater than Table depth
(D - Table depth) R = $(36.55 - 33.30) \times 3$
= +9.75

(b) Where D is less than Table depth (if allowed)
(Table depth - D) R = -

If restricted by superstructures -

Round of Beam correction

Moulded Breadth (B) 63.00

Standard Round of Beam = $\frac{B \times 12}{50} =$ 15.12

Ship's Round of Beam = 15 1/2

Difference Green 38

Restricted to

Correction = $\frac{\text{Diff}^a}{4} \times \left(1 - \frac{S_1}{L} \right) =$ 38 (1 - .9954)

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	<u>162.04</u>	<u>162.04</u>	<u>8-8</u>		<u>162.04</u>
" overhang ...			<u>+ 3 1/2 wood dh</u>		
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...					
" overhang aft ...	<u>332.80</u>	<u>332.80</u>	<u>8-8</u>		<u>332.80</u>
" overhang forward ...			<u>+ 3 1/2 wood dh</u>		
Fore enclosed ...					
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...	<u>4.66</u>	<u>2.33</u>	<u>8-8</u>		<u>2.33</u>
" forward ...			<u>+ 3 1/2 wood dh</u>		
Total ...	<u>499.50</u>	<u>497.17</u>			<u>497.17</u>

Standard Height of Superstructure 7.50

" " R.Q.D. -

Deduction for complete superstructure 42.00

Percentage covered $\frac{S}{L} =$ 100

" " $\frac{S_1}{L} =$ 99.54

" " $\frac{E}{L} =$ 99.54

Percentage from Table, Line A. 99.43
(corrected for absence of forecastle (if required)) -

Percentage from Table, Line B. -
(corrected for absence of forecastle (if required)) -

Interpolation for bridge less than 2L (if required) -

Deduction = 42.00 x .9943 = 41.76

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	<u>59.95</u>	<u>1</u>		<u>59.95</u>	<u>64.75</u>	<u>82.00</u>	<u>1</u>		<u>82.00</u>
1/4 L from A.P. ...	<u>26.68</u>	<u>4</u>		<u>106.72</u>	<u>29.4</u>	<u>36.49</u>	<u>4</u>		<u>145.96</u>
1/2 L " ...	<u>6.59</u>	<u>2</u>		<u>13.18</u>	<u>8.4</u>	<u>9.02</u>	<u>2</u>		<u>18.04</u>
Amidships ...	<u>-</u>	<u>4</u>		<u>-</u>	<u>0</u>	<u>-</u>	<u>4</u>		<u>-</u>
3/4 L from F.P. ...	<u>13.19</u>	<u>2</u>		<u>26.38</u>	<u>11.9</u>	<u>13.80</u>	<u>2</u>		<u>27.60</u>
1/4 L " ...	<u>53.36</u>	<u>4</u>		<u>213.44</u>	<u>49.0</u>	<u>55.85</u>	<u>4</u>		<u>223.40</u>
F.P. ...	<u>119.90</u>	<u>1</u>		<u>119.90</u>	<u>108.25</u>	<u>125.50</u>	<u>1</u>		<u>125.50</u>
Total ...				<u>539.57</u>	<u>+17.25</u>	<u>-</u>			<u>622.50</u>

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ Green 82.93
18 (.25) = -1.15

If limited on account of midship superstructure. -

If limited to maximum allowance of 1 1/2 ins. per 100 ft. -

Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 36.55

Summer freeboard = 6.27

Moulded draught (d) = 30.28

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 7.57 7 1/2

Addition for Winter North Atlantic Freeboard (if required) = -

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta =$ 20835

Tons per inch immersion at summer load water line

$T =$ 63.00

Deduction = $\frac{\Delta}{40T}$ inches

= 8.27

= 8 1/4

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{763 + .67}{1.36} = \frac{1.443}{1.36}$

Depth Correction 9.75

Deduction for superstructures 41.76

Sheer correction 1.15

Round of Beam correction -

Correction for Thickness of Deck amidships -

Other corrections, scantlings, etc. -

Summer Freeboard = 75.23

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc ... 15 1/2
Fresh Water Line " " ... 8 1/4
Tropical Line " " ... 7 1/2
Winter Line below " " ... 7 1/2
Winter North Atlantic Line " " ... -

Tropical Fresh Water Freeboard 4 - 11 1/2
Fresh Water " " 5 - 7
Tropical " " 5 - 7 1/2
Winter " " 6 - 10 3/4
Winter North Atlantic " " -

MARKING FORM

RECEIVED 18 JUL 1934

MARKING FORM

RECEIVED 18 SEP 1932

PARTICULARS OF PROTECTION TO OPENINGS, ETC

Are wood fore and afters steel shod at all bearing surfaces? *Yes*
Are battens and wedges efficient and in good condition? *Yes*
Are tarpaulins in good condition and in accordance with rule requirements? *Yes*
Are lashings provided in accordance with rule requirements? *Ring bolts provided*

Fiddley funnel and ventilators in efficient condition.

Engine Room Skylight of steel strongly constructed.

Permanently attached steel storm covers to be fitted to ladder gratings.

none

Particulars of Companionways:— 1 Steel horse 44'-0" x 21'-0" x 8'-0" high on Shellin Deck leading to Shellin Tween.

Particulars of Companionways:— 1 Steel house 44'-0" x 21'-0" x 8'-0" high on Shellin Deck leading to Shellin Towers
 Steel Door 4'-0" x 1'-7" with 21" steel, doors operated from outside only.
 1 Steel house on Shellin Deck 29'-0" x 23'-0" x 8'-0" high leading to Shellin Towers - Steel Door 4'-0" x 1'-7" with 21" steel
 doors operated from outside only.

1 steel house on Shelli Deck 29'-0" x 23'-0" x 8'-0" high leading to Shelli Towers - Steel Doors 4'-0" x 7'-6" incl 21 steel doors operated from outside only.

1. Still house in shelter Deck 41'0" x 18'6" x 8'0" high leading to poop Tween Still Door 4'0" x 1'7" inch 21 Seal
x Still Door 5'3" x 2'6" x 14" Seal Doors operate from outside only.

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:—

Vents on Shelter Deck 16' x 20" dia coverings 2' 10" x 40 to Lower Deck & hold spaces.

" " " " 12" clear " 8'3"4 .40 " Jan Rooms

6" x 4" - 27" high to mouth leading to Bunker Space

All vents constructed in accordance with rules and coaming not closed with wood plugs or canvas cover as they are of the Mushroom type.

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:—

Cur pipes in Shell. Date 3" x 2" dia 24" high to mouth from peak & DTB Tanks.

no snifting hole & ^{Efficient} means of closing. provided

Particulars of Gangway Cargo and Coaling Ports:—

1. Watertight Gangway door P+S abreast saddle back between Upper & Sheetin Dks. 5'6" x 4'0" efficiently constructed ✓

1. Watertight Gangway down P+S abreast Corn Bunker between Upper & Chatter it's 5'-6" x 4'-0" efficiently constructed.

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Particulars of Scuppers and Sanitary Discharge Pipes:—

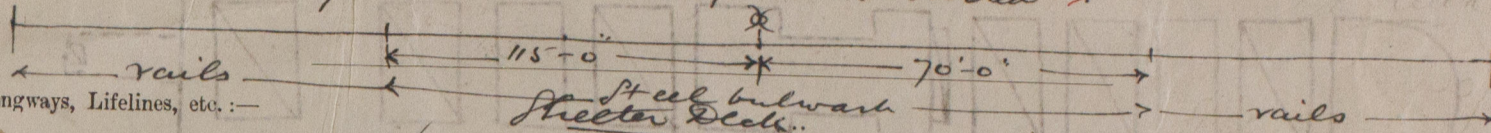
Scupper pipes above & below freeboard deck pump type *
 All Sanitary discharges above & below freeboard fitted with storm valves at ship's side or efficient
 group at inner ends
 * Scuppers draining shelter tween decks have efficient
 closing appliances at inboard end.

Particulars of Side Scuttles:—

In shelter tween decks, fitted with hinged deadlights.
 All side scuttles substantially constructed.

Particulars of Guard Rails:—

On Ice Deck: 3'-6" high, 7 rod, Standrions 4'-6" to 5'-0" apart.
 On Shelter Deck: Rails etc as on Ice deck and part steel bulwark
 4'-0" high substantially constructed.



Particulars of Gangways, Lifelines, etc.:—

no permanent arrangement provided

Particulars of Freeing Arrangements.

	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well ...						
Forward Well ...						

State position of each freeing port (F. and A. position and height above deck edge) } After Well:—
 } Forward Well:—
 State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:—
 Additional area where sheer is less than standard.

Particulars of Superstructures, Trunks, Casings, Deckhouses.

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead T.O. ...	.32	.32	2 1/2 x 3 x .30	3'-9"	none	5'-0" x 4'-6"	21"	8'-8"
Raised Quarter Deck Bulkhead ...								
Bridge, After Bulkhead T.O. ...	.32	.32	3 x 2 1/2 x .3	3'-9"	none	5'-0" x 4'-6"	21"	8'-8"
Bridge, Forward Bulkhead ...								
Forecastle Bulkhead ...	.32	.32	4 x 3 x .45	3'-6"	none	A 5'-0" x 7'-6" B 5'-6" x 2'-6" C 5'-2" x 2'-6" D 4'-0" x 2'-0"	15 1/2" 12" 12"	8'-0"
Trunk, Aft ...								
Trunk, Forward ...								
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...								
Exposed Machinery Casings on Superstructure Decks ...	.30	.30	4 x 3 x .4	3'-6"	Bkts.	A 6'-2" x 3'-9" B 5'-2" x 2'-3" C 5'-3" x 2'-8" D 5'-3" x 2'-8"	12" 15" 14" 16"	8'-0"
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	.30	.30	3 1/2 x 3 x .4	3'-6"	none	A 5'-9" x 2'-2" B 5'-9" x 3'-4" C 5'-9" x 2'-0"	20 1/2" 20" 20"	8'-8"
Deckhouses on Flush Deck Ships ...								

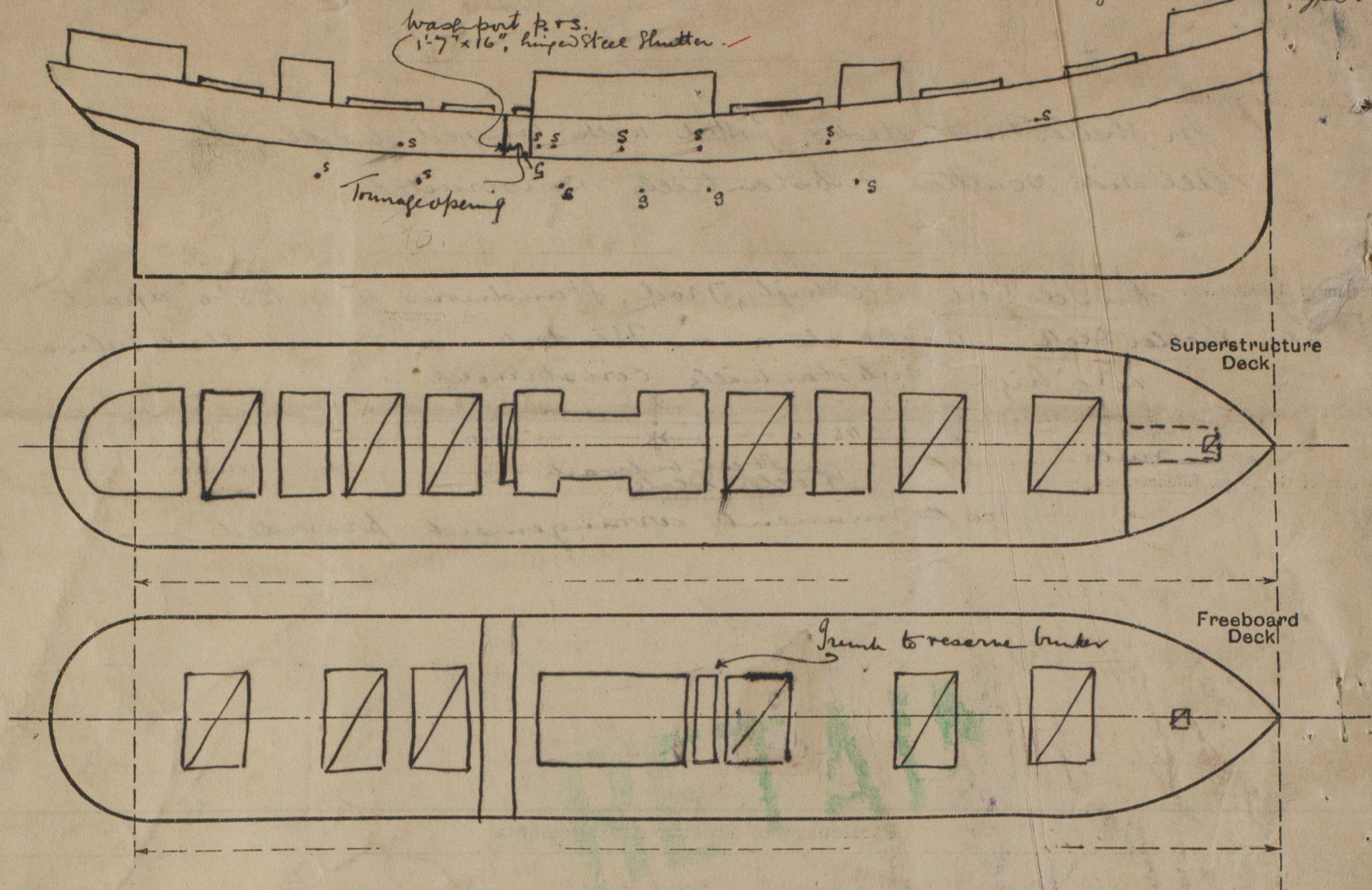
Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead ...	Stormboards 3" thick to full height in riveted channels
Raised Quarter Deck Bulkhead ...	
Bridge, After Bulkhead ...	Stormboards 3" thick to full height in riveted channels
Bridge, Forward Bulkhead ...	
Forecastle Bulkhead ...	A no closing appliances B 1 3/4" wood door in alleyway, spring lock, yes
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	C steel door - clips outside only D " " " " " "
Exposed Machinery Casings on Superstructure Decks ...	A steel hinged door spring lock yes B " " clips outside only C steel hinged door spring lock (to repair) yes
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	D " " clips outside only E steel hinged door spring lock (to repair) yes
Deckhouses on Flush Deck Ships ...	

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Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shown on the following sketches:—

S = pipe scupper - no valve
S = gunwale bar type scupper



Trunk to reserve bunker, Steel

7'-0" x 18'-6" wide. in shelter between the openings 6'-3"-4', side 18", closed by hinged steel doors with clips manipulated from one side only.

~~Plating + stiffening of trunk is thin & wasted and should be repaired~~

State any special features in the construction of the ship:—

Freeboard survey held afloat.
No part of special periodical survey held at this time.

Kel 22

30'-0" mld Ent Δ = 20630 T.P.I. = 63.00

8570

mld D =

31.025 - 30.0 = 1.025' = 12.3" x 63.00 =

20630

775

21405

107

21298 mld @ 81%

30'-0" mld =

30.23 BK

Ent Δ = 20630

T.P.I. = 62.10

Summer Ent BK =

30-6

Ent Δ = 20630 +

(62.10 x 7.25)

20875

Builder's name and yard number

Workman Clark & Co. Ltd.

Names of sister ships

Owners

Commonwealth & Dominion Line Ltd.

Fee £

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Received by me



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