

Rpt. C.11.

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index No. 25803
(For London Office only.)Computation of Freeboard for Steamer, ~~Sailing Ship, Tugboat~~
having POOP, BRIDGE & FORECASTLE.Port of Survey CARDIFFDate of Survey July 18th 1932Name of Surveyor W. E. Marborough.Particulars of Classification + 100 A.1.

S.S. Npt. No. 3-2-31.

(Type of Superstructures.)
Ship's Name "GALVAN" Nationality and Port of Official Number Chinese BRITISH LONDON 142429 Gross Tonnage 5185 Date of Build 1918
Moulded Dimensions: Length 399.5 Breadth 52.0 Depth 31.0
Moulded displacement at moulded draught = 85 per cent. of moulded depth 12048 tons
Coefficient of fineness for use with Tables .770

Depth for Freeboard (D)

Moulded depth ... 31.00
Stringer plate (.50)04
Sheathing on exposed deck
 $T \left(\frac{L-S}{L} \right) =$ ✓

Depth for Freeboard (D) = 31.04

Depth correction

(a) Where D is greater than Table depth
(D - Table depth) R = (31.04 - 26.63) 3 = + 13.23
(b) Where D is less than Table depth (if allowed)
(Table depth - D) R = 4.41

If restricted by superstructures

Round of Beam correction

Moulded Breadth (B) 52.0
Standard Round of Beam = $\frac{B \times 12}{50} =$ 12.48
Ship's Round of Beam = 13.00
Difference Excess .52
Restricted to
Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) =$ $\frac{.52}{4} \times .4964 = -.06$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	<u>49.25</u>	<u>49.25</u>	<u>4.96</u>		<u>49.25</u>
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...	<u>112.66</u>	<u>112.66</u>	<u>4.96</u>		<u>112.66</u>
" overhang aft ...					
" overhang forward ...					
Fore enclosed ...	<u>38.27</u>	<u>38.27</u>	<u>4.96</u>		<u>38.27</u>
" overhang ...	<u>1.00</u>	<u>1.00</u>			<u>1.00</u>
Trunk aft ...					
forward ...					
Tonnage opening aft ...					
" forward ...					
Total ...	<u>201.18</u>	<u>201.18</u>			<u>201.18</u>

Standard Height of Superstructure 7.495

R.Q.D.

Deduction for complete superstructure 41.96Percentage covered $\frac{S}{L} =$ 50.36 % $\frac{S_1}{L} =$ 50.36 % $\frac{E}{L} =$ 50.36 %

Percentage from Table, Line A.

(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 = 41.96 × .3636 = - 15.26

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	<u>49.95</u>	1		<u>49.95</u>	<u>60.00</u>	<u>60.00</u>	1		<u>60.00</u>
$\frac{1}{2}$ L from A.P. ...	<u>22.23</u>	4		<u>88.92</u>	<u>26.04</u>	<u>26.07</u>	4		<u>104.28</u>
$\frac{3}{4}$ L " ...	<u>5.49</u>	2		<u>10.98</u>	<u>6.50</u>	<u>6.52</u>	2		<u>13.04</u>
Amidships ...		4					4		
$\frac{3}{4}$ L from F.P. ...	<u>10.98</u>	2		<u>21.96</u>	<u>13.19</u>	<u>13.23</u>	2		<u>26.46</u>
$\frac{1}{2}$ L " ...	<u>44.46</u>	4		<u>77.84</u>	<u>52.93</u>	<u>52.93</u>	4		<u>211.72</u>
F.P. ...	<u>99.90</u>	1		<u>99.90</u>	<u>120.00</u>	<u>120.00</u>	1		<u>120.00</u>
Total ...				<u>449.55</u>					<u>535.50</u>

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ $\frac{449.55}{18} \left(.75 - \frac{.2518}{2} \right) = - 2.38$

If limited on account of midship superstructure.

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 31.04
Summer freeboard = 5.96
Moulded draught (d) = 25.08

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 6.27 = 6 $\frac{1}{4}$ Addition for Winter North Atlantic Freeboard (if required) = ✓

Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta =$ 11495

Tons per inch immersion at summer load water line

T = 40.8Deduction = $\frac{\Delta}{40T}$ inches= 7.04= 7"

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

.770 + .681.36

Depth Correction ...

Deduction for superstructures ...

Sheer correction ...

Round of Beam correction ...

Correction for Thickness of Deck amidships ...

Other corrections, scantlings, etc. ...

71.34

76.06

+

-

13.23

15.26

2.38

.06

13.23

17.70

- 4.47

Summer Freeboard = 71.59SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~, Steel, Deck:—

Tropical Fresh Water Line above Centre of Disc ... 13 $\frac{1}{4}$
Fresh Water Line " " ... 7 $\frac{1}{4}$
Tropical Line " " ... 6 $\frac{1}{4}$
Winter Line below " " ... 6 $\frac{1}{4}$
Winter North Atlantic Line " " ... ✓

Tropical Fresh Water Freeboard ... 5' 11 $\frac{1}{2}$
Fresh Water " " ... 4' 10 $\frac{1}{4}$
Tropical " " ... 5' 4 $\frac{1}{2}$
Winter " " ... 5' 5 $\frac{1}{4}$
Winter North Atlantic " " ... 6' 5 $\frac{3}{4}$

5m, 3.32.

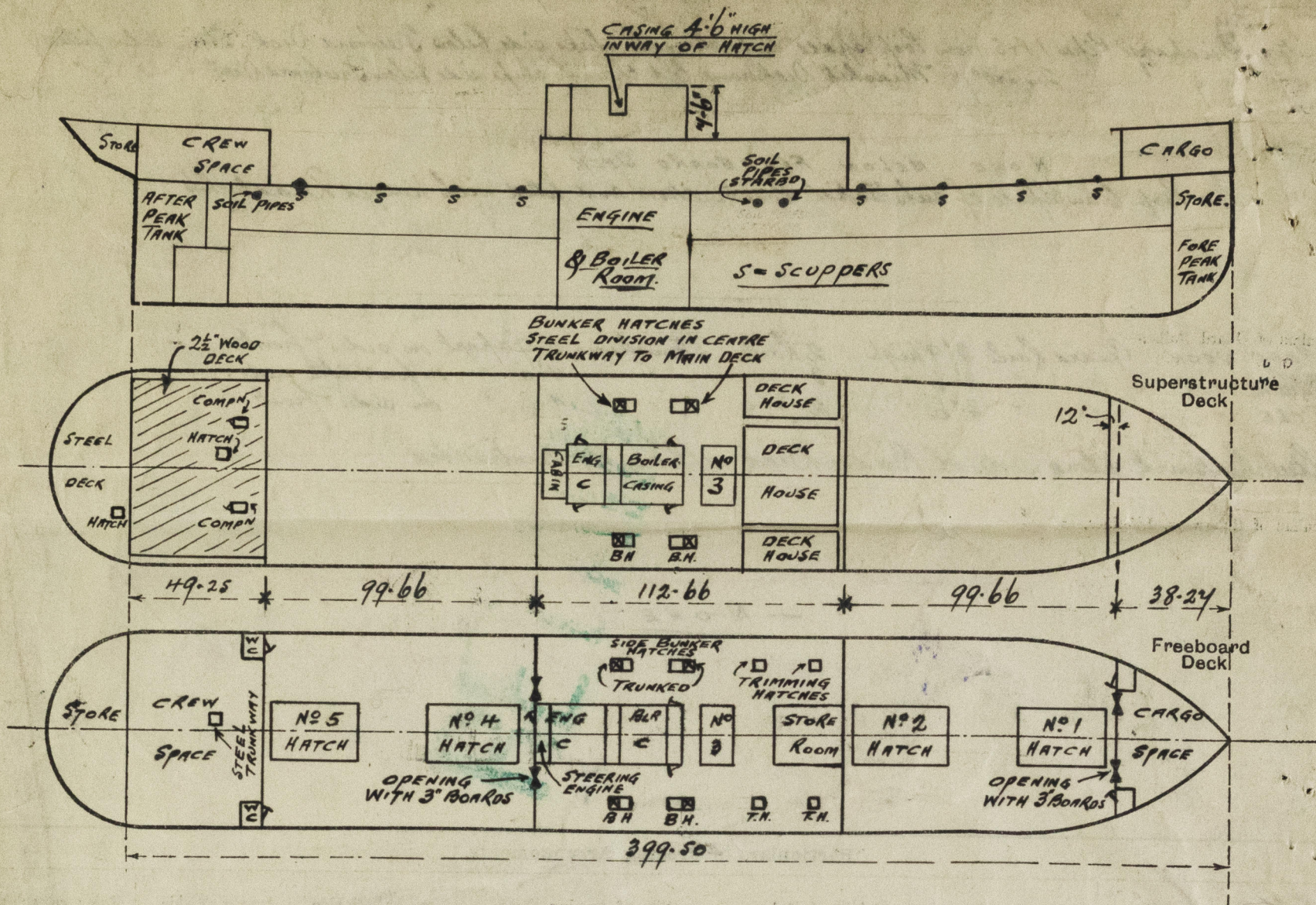
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Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the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



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

Steel Hatch on Poop Deck 3'6" x 3'6", Craming 15' x 34" thick, Hinged steel cover securely fastened

4 E = 10550
 1558
 12108
 60
 12048
 23.32
 26.52
 23.32
 3.20 x 12 x 40.5

The following information was obtained on Board.

DRAFT	DEADWEIGHT
25'-2 1/2"	8110 Ton.
24'-11 1/2"	8000
22'-11 1/2"	4000
20'-10"	6000
18'-10"	5000

25.08
 17
 25.25
 23.32
 1.93 x 12 x 40.5 = 945
 11495

This vessel has been measured in Dry Dock (for ordinary Docking survey)

Builder's name and yard number. Harland & Wolff Ltd. Belfast

Names of sister ships

Owners B. Agnes Great Southern Railway Co Ltd. (A. Holland & Co Ltd Mgrs)

Fee £ 13 : 12 : 0

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