

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Ex. Lp. 24413.

Computation of Freeboard for Steamer, Sailing Ship, Tanker
having a Poop, Bridge and Forecastle.

Port of Survey Bordeaux.

Date of Survey 31 March 1933

Name of Surveyor L. L. L.

Particulars of Classification +100A.1.
SS. Cpn No. 2-28

(Type of Superstructures.)

Ship's Name BOGÖ EX. GALLICIER.	Nationality and Port of Registry Danish Copenhagen.	Official Number ✓	Gross Tonnage 1214	Date of Build 1920. 11.
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Moulded Dimensions: Length 239.66 Breadth 35.5 Depth 17.25

Moulded displacement at moulded draught = 85 per cent. of moulded depth 2723 tons

Coefficient of fineness for use with Tables .764

Depth for Freeboard (D)

Moulded depth ... 17.25

Stringer plate .62

Sheathing on exposed deck
 $T \left(\frac{L-S}{L} \right) =$ nil.

Depth for Freeboard (D) = 17.29

Depth correction

(a) Where D is greater than Table depth
(D-Table depth) R = $(17.29 - 15.98) \times .843$
= + 2.41"

(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) 35.5

Standard Round of Beam = $\frac{B \times 12}{50} =$ 8.52"

Ship's Round of Beam 9" = 9.00"

Difference .48" excess

Restricted to

Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S}{L} \right) =$ $\frac{.48}{4} \times .5433 =$ -.07"

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	27.16	27.16	7'-1 1/2"		27.16
" overhang ...	✓				
R.Q.D. enclosed ...	✓				
" overhang ...	✓				
Bridge enclosed...	53.75	53.75	7'-1 1/2"		53.75
" overhang aft ...	2.20	1.65			1.65
" overhang forward	1.00	.50			.50
Forecastle enclosed	27.83	26.40	7'-1 1/2"		26.40
" overhang ...	26.40				
Trunk aft ...	62.42				
" forward ...	68.50				
Tonnage opening aft ...					
" " forward					
Total ...	110.51	109.46			109.46

Standard Height of Superstructure 6.00'" " R.Q.D. ✓Deduction for complete superstructure 29.97'Percentage covered $\frac{S}{L} =$ 46.12%" $\frac{S_1}{L} =$ 45.67%" $\frac{E}{L} =$ 45.67%Percentage from Table, Line A.
(corrected for absence of forecastle (if required))Percentage from Table, Line B. 32.32%
(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = 29.97' x .32.32 = - 9.69"

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	33.97	1		33.97	36	36.00	1		36.00
1/4 L from A.P. ...	15.11	4		60.44	15 1/2	15.40	4		61.60
1/2 L " ...	3.74	2		7.48	4	3.85	2		7.70
Amidships ...	✓	4		✓	0	✓	4		✓
3/4 L from F.P. ...	7.47	2		14.94	8	7.80	2		15.60
1/4 L " ...	30.22	4		120.88	31	31.20	4		124.80
F.P. ...	67.94	1		67.94	72	72.00	1		72.00
Total ...	305.73			305.65					317.70

Mean actual sheer aft = ExcessMean actual sheer forward = Excess

Length of enclosed superstructure forward of amidships = $\frac{27.83 + 23.5}{2} = \frac{51.33}{2} = 25.66$.098 L

" " aft of " = $\frac{27.16 + 30.25}{2} = \frac{57.41}{2} = 28.70$.71 L

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{12.05}{18} \left(\frac{.75 - .2306}{.5194} \right) =$ -.35"If limited on account of midship superstructure. .35 x .195 = -.35" 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 = 17.29

Summer freeboard = 2.03

Moulded draught (d) = 15.26

Deduction for Tropical Freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 3.81"Addition for Winter North Atlantic Freeboard (if required) = 2"

Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta =$

Tons per inch immersion at summer load water line

T =

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

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+	-
Depth Correction ...	2.41	-
Deduction for superstructures ...	-	9.69
Sheer correction ...	-	.35
Round of Beam correction ...	-	.07
Correction for Thickness of Deck amidships ...	-	-
Other corrections, scantlings, etc. ...	-	-
	2.41	10.11

Summer Freeboard = 24.41SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:— 24.41"

24.41	Tropical Fresh Water Line above Centre of Disc
5.81	Fresh Water Line " "
30.22	Tropical Line " "
	Winter Line below " "
	Winter North Atlantic Line " "

Tropical Fresh Water Freeboard
Fresh Water " "
Tropical " "
Winter " "
Winter North Atlantic " "

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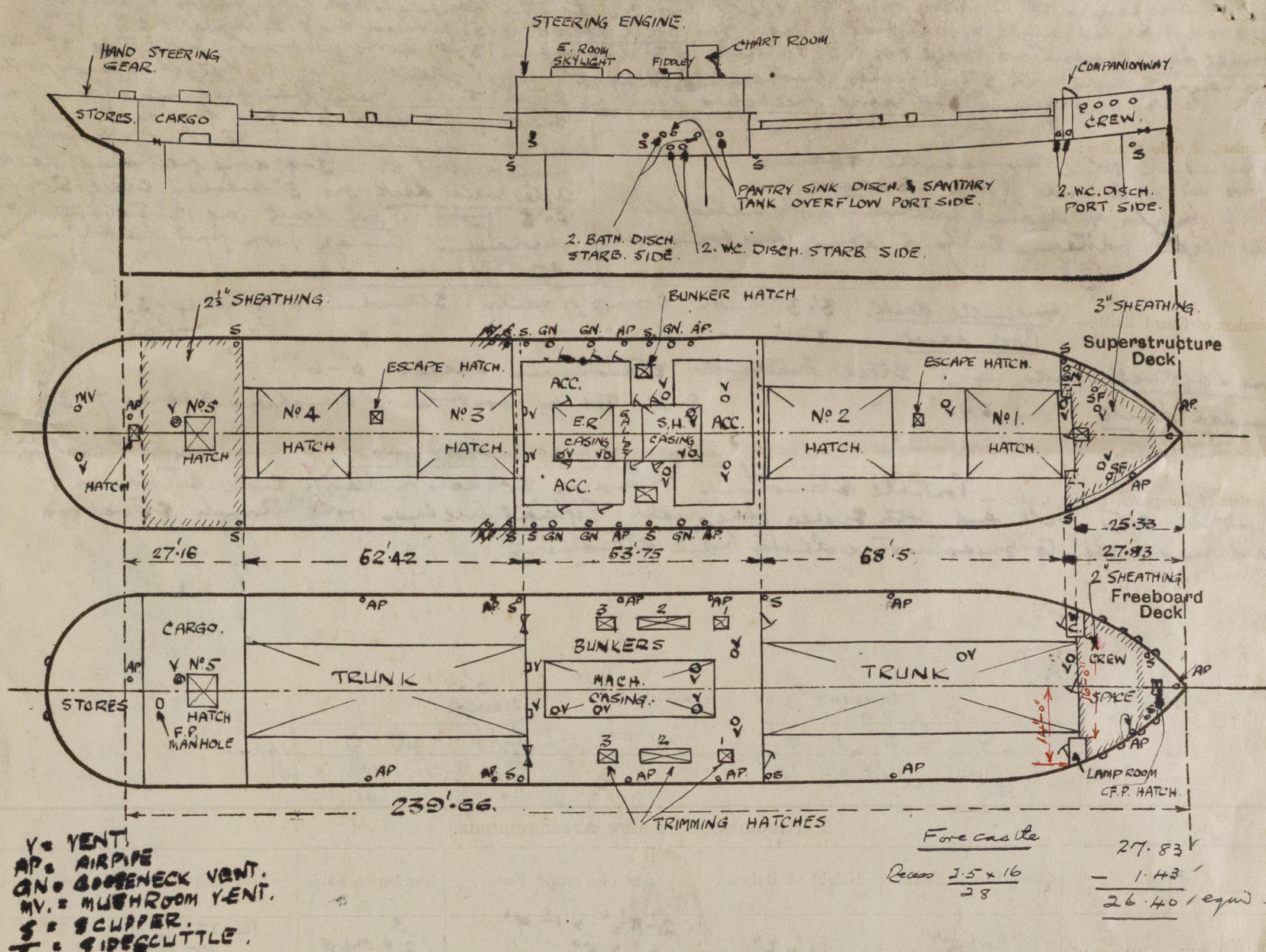
1906 freeboards reassigned.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Particulars of Closing Appliances (state if capable of being manipulated from both sides).	
Poop Bulkhead	Steel plates secured by 10 steel dogs manipulated from outside only. Springs also line steel channels under to bulkhead which cut take 3" thick boards. Storm boards full height in riveted channels.
Raised Quarter Deck Bulkhead	✓ Same as Poop Bulkhead.
Bridge, After Bulkhead	Hinged steel doors secured by 12 steel dogs manipulated from outside only.
Bridge, Forward Bulkhead	one hinged steel door capable of being manipulated from both sides. 8" diam vent hole in door 4'-9" above trough.
Forecastle Bulkhead	✓ Two hinged steel doors in halves to 8"H. Casings capable of being manipulated from both sides. Two 12" vent doors in ER casing manipulated from both sides. Access to ER door through accommodation spaces with 3.15" steel doors for side & 2 steel (2' 4" high bells 1'-6") manipulated from both sides.
Exposed Machinery Casings on Free-board or Raised Quarter Decks	✓ none
Exposed Machinery Casings on Super-structure Decks	✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	✓
Deckhouses on Flush Deck Ships	✓

2/2 W421-0108

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:—

Displacement Scale

1992 tons	15'-9"
1950 "	15'-6 1/2"
1700 "	14'-3 1/2" tons per inch 16 3/4.

Survey held in dry dock and
 afloat concurrently with
 Special Survey No 3, now
 completed.

Owners desire to be advised as to the Timber freeboards
 obtainable. Conditions of assignment and marking of timber
 freeboards to be dealt with later. Please refer to
 Continuation Sheet herewith for further particulars regarding
 fittings etc for the carriage of timber cargoes.

Report from 9. herewith.

Builder's name and yard number Lloyd Royal Barge (Brit Britain) Ltd. Glasgow. No 16.

Names of sister ships

Owners S/S. Baltic (Chr. Jensen (Petrograd) Ngr.

Fee £ 12.00

Received by me ☒



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