Rpt. C.11 (Comp.)

Fort Columbia
37352

31 OCT 1944

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, ~~SAILING SHIP, TANKER~~.)

Index. No. 37775
(For London Office only).

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
GULFSIDE ~~"FORT ALABAMA"~~	170000	CANADIAN ~~British~~ MONTREAL	7201.75	1944

Port of Survey **North Vancouver, B.C.**

Date of Survey **September, 1944**

Surveyor's Signature { *Gurney* and *G. Sinclair.*

Moulded Dimensions: Length ~~416.50'~~ 417.35 *to centre fiddle stoele* Breadth **56.90'** Depth **(37.33' to Upper Deck (28.58' to 2nd Deck**

Moulded displacement at moulded draught = 85 per cent. of moulded depth **16,600** tons

Coefficient of fineness for use with Tables **·771**

Particulars of Classification **Contemplated *100 A1 with freeboard corresponding to a Summer Moulded Dft. of 26'-10".**

Depth for Freeboard (D).

Moulded depth ... ... **37.33'**

Stringer plate ... ... **·06'**

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

Depth for Freeboard (D) = **37.39**

Depth correction.

(a) Where D is greater than Table depth (D—Table depth) R=
$$\frac{(37.39-27.82)\times 3}{9.57} = +28.71$$

(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) **56.9'**

Standard Round of Beam $= \dfrac{B \times 12}{50} =$ **13·66**

Ship's Round of Beam = **14.00"**

Difference **·34**

Restricted to

Correction $= \dfrac{\text{Diff}^e}{4} \times \left(1-\dfrac{S_1}{L}\right) = \dfrac{·34}{4} = ·09$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S₁)	Height	Height Correction	Effective Length (E)
Poop enclosed					
" overhang... ...					
R.Q.D. enclosed					
" overhang ...					
Bridge enclosed... ...					
" overhang aft ...					
" overhang forward					
F'cle enclosed					
" overhang ...					
Trunk aft					
" forward					
Tonnage opening aft ...					
" " forward					
Total ...					

FLUSH DECK

Standard Height of Superstructure _____

" " R.Q.D. _____

Deduction for complete superstructure _____

Percentage covered $\dfrac{S}{L} =$

" " $\dfrac{S_1}{L} =$ } *Flush deck*

" " $\dfrac{E}{L} =$

Percentage form 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 = *Nil*.

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate Ins.	Effective Ordinate	S M	Product
A.P.	51·73	1	51·73	55.00	55.00	1	55·00
⅙L from A.P. ...	23·02	4	92·08	23.25	23·25	4	93·00
⅓L " ...	5·69	2	11·38	6.50	6·50	2	13·00
Amidships ...	—	4	—	--	—	4	—
⅓L from F.P. ...	11·38	2	22·76	11.63	11·63	2	23·26
⅙L " ...	46·04	4	184·16	46.75	46·75	4	187·00
F.P.	103·47	1	103·47	105.00	105·00	1	105·00
Total ...			465·58				476·26

$\dfrac{\text{Mean actual sheer aft}}{\text{Mean standard sheer aft}} =$ } *Excess*

$\dfrac{\text{Mean actual sheer forward}}{\text{Mean standard sheer forward}} =$

$\dfrac{\text{Length of enclosed superstructure}}{L}$ forward of amidships = } *Nil.*

" " aft of " =

Correction $= \dfrac{\text{Difference between sums of products}}{18}\left(·75-\dfrac{S}{2L}\right) = \dfrac{10·68}{18}\times·75 = -·45$

If limited on account of midship superstructure. *No. Flush deck*

If limited to maximum allowance of 1½ ins. per 100 ft. ✓

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

Depth to Freeboard Deck = **37·39** Ft.

Summer freeboard = **10·56**

Moulded draught (d) = **26·83**

Deduction for Tropical freeboard and addition for Winter freeboard $= \dfrac{d}{4}$ inches = **6·71 = 6¾**

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

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\triangle =$ **13760**

Tons per inch immersion at summer load water line

T = **48·20**

Deduction $= \dfrac{\triangle}{40T}$ inches = **7¼"**

TABULAR FREEBOARD

corrected for Flush Deck (if required) **76·95 + 6·26** **83·21**

Correction for coefficient. $\dfrac{·771+·69}{1·36} = 1·451/1·36$ **88·78**

	+	−
Depth Correction	28·71	
Deduction for superstructures ...		
Sheer correction		·45
Round of Beam correction ...		·09
Correction for Thickness of Deck amidships ...		
Other corrections, scantlings, etc. *to correct*	9·80	
	38·51	·54

To a summer moulded draught of 26'-10"

+ 37·97

82 R. 31·10·44

Summer Freeboard = **126·75**

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~, Steel, Deck:— **10'-6¾**

			9'-4¾
Tropical Fresh Water Line above Centre of Disc	14"	Tropical Fresh Water Freeboard ...	·9'-2½
Fresh Water Line " "	7¼"	Fresh Water ...	·9'-11½
Tropical Line " "	6¾"	Tropical ...	·10'-0
Winter Line below "	6¾"	Winter ...	·11'-1½
~~Winter North Atlantic Line~~ "		~~Winter North Atlantic~~	

-7 NOV 1944

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A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

Trade of ship Victualling

Names of sister ships Burrard (Vancouver) Dry Dock Co. Ltd., North Vancouver, B. C. (South Yard No.207)

Builder's name and yard number Burrard (Vancouver) Dry Dock Co. Ltd., North Vancouver, B. C. (South Yard No.211)

Owners Minister of Munitions & Supply of Canada.

Fee $100.00