Rpt. C.11 (Comp.).

Fort Columbia 37352

17 MAR 1944

Index. No. 37555
(For London Office only).

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, ~~SAILING SHIP, TANKER.~~)

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
~~"MENATA PARK"~~ HARMAC GROFTON	175,361	British Montreal, P.Q.	7160.59	1944

Port of Survey North Vancouver, B.C.

Date of Survey January, 1944

Surveyor's Signature [illegible]

Moulded Dimensions: Length ~~416.50'~~ 417·35 to centre of rudder stock. 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 ✠100A1 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

$T\left(\frac{L-S}{L}\right) =$

Depth for Freeboard (D) = 37·39

Depth correction.

(a) Where D is greater than Table depth (D—Table depth) R= (37·39 − 27·82) × 3 = +28·71
9·57

(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 $= \frac{B \times 12}{50} =$ 13·66

Ship's Round of Beam = 14.00"

Difference ·34

Restricted to ✓

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

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S_1)	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 $\frac{S}{L} =$ } Nil.

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

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

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
⅚L " ...	5·69	2	11·38	6.50	6·50	2	13·00
Amidships ...	-	4	-	- -	-	4	-
⅚L 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

$\frac{\text{Mean actual sheer aft}}{\text{Mean standard sheer aft}} =$

$\frac{\text{Mean actual sheer forward}}{\text{Mean standard sheer forward}} =$ } Excess.

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

" " aft of " =

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

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.

		Ft.
Depth to Freeboard Deck	=	37·39
Summer freeboard	=	10·56
Moulded draught (d)	=	26·83

Deduction for Tropical freeboard and addition for Winter freeboard $= \frac{d}{4}$ 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

$\Delta =$ 13760

Tons per inch immersion at summer load water line

T = 48·20

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

= 7¼"

TABULAR FREEBOARD corrected for Flush Deck (~~if required~~)

76·95 + 6·26

Correction for coefficient. $\frac{\cdot 771 + \cdot 68}{1 \cdot 36} = 1 \cdot 45 / 1 \cdot 36$.

	+	−	
Depth Correction	28·71	—	83·21
Deduction for superstructures	—	—	88·78
Sheer correction	—	·45	87·B. 17·3·44
Round of Beam correction	—	·09	
Correction for Thickness of Deck amidships ...	—	—	
Other corrections, scantlings, ~~etc.~~ to correspond to a summer moulded draught of 26'-10" ...	9·80	—	
	38·51	·54	+37·97

Summer Freeboard = 126·75

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

Tropical Fresh Water Line above Centre of Disc	14"	Tropical Fresh Water Freeboard	9'-4¾"
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~~ ✓	✓

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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

Names of sister ships Burrard Dry Dock Co. Ltd., North Vancouver, B.C. (Yard No. 180)

Builder's name and yard number Burrard Dry Dock Co. Ltd., North Vancouver, B.C. (Yard No. 198)

Owners Minister of Munitions & Supply of Canada

Fee £ $100.00