

For Columbia
37352

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

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

Ship's Name S.S. "DUNDURN PARK"	Official Number 174,817	Nationality and Port of Registry British Montreal, Que.	Gross Tonnage 7,158.87	Date of Build 1943	Port of Survey North Vancouver, B.C.
Moulded Dimensions: Length 417.35 Breadth 56.90 Depth (37.33' to Upper Deck 28.58' to 2nd Deck)					Date of Survey November, 1943
Moulded displacement at moulded draught = 85 per cent. of moulded depth 16,600 tons					Surveyor's Signature <i>for J.B. Gills and self</i>
Coefficient of fineness for use with Tables .771					Particulars of Classification * 100 A.1 with Freeboard (Contemplated)

Depth for Freeboard (D). Moulded depth ... 37.33' Stringer plate06' 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) x 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 = $\frac{\text{Diff}^o}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{34}{4} = - .09$
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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 ...					

Standard Height of Superstructure _____
" " R.Q.D. _____
Deduction for complete superstructure _____
Percentage covered $\frac{S}{L} =$ _____
" " $\frac{S_1}{L} =$ **Nil**
" " $\frac{E}{L} =$ _____
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 = **Nil**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	51.73	1		51.73	55.00	55.00	1		55.00
1/4L from A.P. ...	23.02	4		92.08	23.25	23.25	4		93.00
1/4L " ...	5.69	2		11.38	6.50	6.50	2		13.00
Amidships ...	-	4		-	-	-	4		-
1/4L from F.P. ...	11.38	2		22.76	11.63	11.63	2		23.26
1/4L " ...	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

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{10.68}{18} \times .75 = -.45$
If limited on account of midship superstructure. **No. flush deck.**
If limited to maximum allowance of 1 1/2 ins. per 100 ft. **✓**

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	83.21
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient. $\frac{771 + .68}{1.36} = 1.451/1.36$	88.78
Depth to Freeboard Deck = 37.39	$\Delta =$ 137.60	Depth Correction ... 28.71	
Summer freeboard = 10.56	Tons per inch immersion at summer load water line	Deduction for superstructures ... -	
Moulded draught (d) = 26.83	T = 48.20	Sheer correction ... -45	
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.71 = 6 3/4	Deduction = $\frac{\Delta}{40T}$ inches = 7 1/4	Round of Beam correction09	
Addition for Winter North Atlantic Freeboard (if required) =		Correction for Thickness of Deck amidships ... -	
		Other corrections, scantlings, etc. 26.10	
		Summer Freeboard = 126.75	

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

Tropical Fresh Water Line above Centre of Disc ...	14"	Tropical Fresh Water Freeboard ...	10' - 6 3/4"
Fresh Water Line " " ...	7 1/4"	Fresh Water " " ...	9' - 4 3/4"
Tropical Line " " ...	6 3/4"	Tropical " " ...	9' - 11 1/2"
Winter Line below " " ...	6 3/4"	Winter " " ...	10' - 0"
Winter North Atlantic Line " " ...	-	Winter North Atlantic " " ...	11' - 1 1/2"

22 FEB 1944

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..... **S.S. "FORT HALL" North Van Ship Repairs, Ltd., North Vancouver, B.C. (Hull No. 127)**

Builder's name and yard number..... **North Van Ship Repairs, Limited, North Vancouver, B.C. (Hull No. 133.)**

Owners..... **Park Steamship Co. Limited, Montreal, P.Q.**

Fee **\$100.00** *pb*



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