

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name POINT PELEE PARK ex. FORT CHIMO	Official Number 173262	Nationality and Port of Registry BRITISH. Montreal	Gross Tonnage 7199	Date of Build 1942.	Port of Survey MONTREAL, P.Q.
Moulded Dimensions: Length 416.00 Breadth 56.88 Depth 37.33 TO UPPER DECK To CR OF RUDDER STOCK 416.85 28.58 TO SECOND DECK.					Date of Survey 20th July, 1942.
Moulded displacement at moulded draught = 85 per cent. of moulded depth 16690. tons					Surveyor's Signature C. Macpherson
Coefficient of fineness for use with Tables .778 .776					Particulars of Classification 100 A.1. "WITH FREEBOARD" "CARRYING PETROLEUM IN BULK"

Depth for Freeboard (D). Moulded depth ... 37.33 Stringer plate05 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 37.38	Depth correction. (a) Where D is greater than Table depth .77 $(D - \text{Table depth}) R =$ $(37.38 - 27.78) 3.00 = +28.95$ (b) Where D is less than Table depth (if allowed) $(\text{Table depth} - D) R =$ If restricted by superstructures <input checked="" type="checkbox"/>	Round of Beam correction. Moulded Breadth (B) 56.88' Standard Round of Beam = $\frac{B \times 12}{50} = 13.65"$ Ship's Round of Beam = $\frac{14.00}{1} = 14.00"$ Difference = .35" Restricted to Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L}\right) = \frac{.35}{4} = .09"$
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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 ...					

FLUSH DECK.

Standard Height of Superstructure 7.50'	
" " R.Q.D. <input checked="" type="checkbox"/>	
Deduction for complete superstructure 42.00"	
Percentage covered $\frac{S}{L} =$	
" " $\frac{S_1}{L} =$	
" " $\frac{E}{L} =$	
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. ...	51.60⁸	1		51.60⁸	54.63	54.63	1		54.63
$\frac{1}{2}$ L from A.P. ...	23.00⁰	4		92.00⁰	22.38	22.38	4		89.52
$\frac{3}{4}$ L " ...	5.68	2		11.36	4.88	4.88	2		9.76
Amidships ...	-	4		-	-	-	4		-
$\frac{3}{4}$ L from F.P. ...	11.35⁷	2		22.70⁴	11.75	11.75	2		23.50
$\frac{1}{2}$ L " ...	46.00⁰	4		184.00⁰	47.13	47.13	4		188.52
F.P. ...	103.20³⁷	1		103.20³⁷	104.75	104.75	1		104.75
Total ...				464.38					470.68

Mean actual sheer aft = **99.06%**
Mean standard sheer aft = **99.06%**
Mean actual sheer forward = **EXCESS**
Mean standard sheer forward = **EXCESS**
Length of enclosed superstructure forward of amidships = **FLUSH DECK**
" " aft of " = **FLUSH DECK**
after sheer.

51.68	1	51.68	54.63	1	54.63
23.00	3	69.00	22.38	3	67.14
5.68	2	17.04	4.88	2	14.64
		137.72			136.41

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{.2L} \right) = \frac{5.53 - 6.30}{18} \times .75 = -.29$
If limited on account of midship superstructure. **No. FLUSH DECK**
If limited to maximum allowance of $\frac{1}{2}$ ins. per 100 ft. ☒

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **37.38**
 Summer freeboard = **11.52**
 Moulded draught (d) = **25.86**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = **6.46 = 6 $\frac{1}{2}$**

Addition for Winter North Atlantic Freeboard (if required) = **6 $\frac{1}{2}$ + 4 $\frac{1}{4}$ = 10 $\frac{3}{4}$**

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta =$?

Tons per inch immersion at summer load water line

T = **48.23**

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

= **7"**

TABULAR FREEBOARD

Corrected for Flush Deck (if required)

Correction for coefficient

$\frac{776 + 68}{1.36} = \frac{1.456}{1.36}$

Depth Correction ... **28.20**

Deduction for superstructures ...

Sheer correction ... **.23**

Round of Beam correction ... **.09**

Correction for Thickness of Deck amidships ...

Other corrections, scantlings, etc. To CORRESPOND TO SUMMER EXTREME DRAUGHT OF **26.0"**

Summer Freeboard = **138.25**

83.04

88.90

82.8

2.12.42

49.35

138.25

4 DEC 1942

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

Tropical Fresh Water Line above Centre of Disc **13 $\frac{1}{2}$ "**
 Fresh Water Line " " **7"**
 Tropical Line " " **6 $\frac{1}{2}$ "**
 Winter Line " " **6 $\frac{1}{2}$ "**
 Winter North Atlantic Line " " **10 $\frac{3}{4}$ "**

Tropical Fresh Water Freeboard ... **20.24**
 Fresh Water " " **10.0**
 Tropical " " **10.0**
 Winter " " **12.0**
 Winter North Atlantic " " **12.5**