

Ocean Vanguard 36710
(Similar.)

Lloyd's Register of Shipping.

Index No. 36793
(For London Office only.)

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name S.S. "FORT TADOUSSAC"	Official Number 168819	Nationality and Port of Registry British. Liverpool	Gross Tonnage 7129	Date of Build 1942	Port of Survey Montreal, P.Q.
Moulded Dimensions: Length 416.00' <i>To center of stock 417.35'</i>					Date of Survey 19th November, 1941.
Breadth 56.88'					Surveyor's Signature D. Mislop
Depth 37.33' to upper deck. 28.58' to second deck					Particulars of Classification + 100 A.I. "with freeboard" (contemplated.)
Moulded displacement at moulded draught = 85 per cent. of moulded depth 16590 tons SW.					
Coefficient of fineness for use with Tables 746 778 771					

Depth for Freeboard (D).		Depth correction.		Round of Beam correction.	
Moulded depth	37.33	(a) Where D is greater than Table depth (D - Table depth) R =	68'	Moulded Breadth (B)	56.88'
Stringer plate	.05	(37.38 - 27.78) 3.00	+ 28.95'	Standard Round of Beam = $\frac{B \times 12}{50}$	13.65"
Sheathing on exposed deck	-	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	-	Ship's Round of Beam	14.00"
$T \left(\frac{L-S}{L} \right) =$				Difference	.35"
Depth for Freeboard (D) =	37.38	If restricted by superstructures	-	Restricted to	
				Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right)$	$\frac{.35}{4} = -.09"$

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					
Fore enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total					

Flush Deck.

Standard Height of Superstructure **7.50'**

" " R.Q.D. **-**

Deduction for complete superstructure **42.00"**

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.	51.60	1		51.60	54.63	54.63	1		54.63
$\frac{1}{4}L$ from A.P.	22.88	4		91.52	22.38	22.38	4		89.52
$\frac{2}{4}L$ "	5.68	2		11.36	4.88	4.88	2		9.76
Amidships	-	4		-	-	-	4		-
$\frac{3}{4}L$ from F.P.	11.35	2		22.70	11.75	11.75	2		23.50
$\frac{1}{4}L$ "	45.92	4		183.68	47.13	47.13	4		188.52
F.P.	103.20	1		103.20	104.75	104.75	1		104.75
Total				464.38					470.68

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75 - S}{2L} \right) = \frac{630}{18} \times .75 = -.28"$

If limited on account of midship superstructure. **-.21"**

Mean actual sheer aft = **Deficient but > 75%**

Mean standard sheer aft

Mean actual sheer forward = **Excess**

Mean standard sheer forward

Length of enclosed superstructure forward of amidships = **Nil**

Aft sheers.

Standard	Actual
51.73	54.63
23.02	22.38
5.64	4.88
137.86	136.41

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Corrected for Flush Deck (if required)
Depth to Freeboard Deck = 37.38	$\Delta =$ 137.98	Correction for coefficient $\frac{.68 + .771}{1.36} = \frac{1.451}{1.36}$
Summer freeboard = 10.54	Tons per inch immersion at summer load water line	
Moulded draught (d) = 26.84	$T =$ 48.23	Depth Correction ... 28.68
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.71 = 6 $\frac{3}{4}$"	Deduction = $\frac{\Delta}{40T}$ inches = 7.15"	Deduction for superstructures ... -
Addition for Winter North Atlantic Freeboard (if required) = ✓	= 7 $\frac{1}{4}$"	Sheer correction ... 0.21
		Round of Beam correction ... 0.09
		Correction for Thickness of Deck amidships ... -
		Other corrections, scantlings, and to ... 9.34
		Summer Freeboard = 126.50

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	9'-4 $\frac{1}{2}$ "
Fresh Water Line	7 $\frac{1}{4}$ "	Fresh Water	9'-11 $\frac{1}{4}$ "
Tropical Line	6 $\frac{3}{4}$ "	Tropical	9'-11 $\frac{3}{4}$ "
Winter Line below	6 $\frac{3}{4}$ "	Winter	11'-1 $\frac{1}{4}$ "
Winter North Atlantic Line	✓	Winter North Atlantic	✓

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.

Quint

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