

Ocean Vanguard  
36720 etc.

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

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

Index. No. 36954  
(For London Office only).

31 AUG 1942

F20

Ship's Name "OCEAN VOLGA"	Official Number <del>Not yet</del> 168311 issued	Nationality and Port of Registry BRITISH LONDON	Gross Tonnage <del>7174</del> 1211 M.O.T. 93.53.	Date of Build 1942	Port of Survey RICHMOND, CALIFORNIA
Moulded Dimensions: Length 417.35 Breadth 56.90 Depth 37.33 To centre of rudder stock.					Date of Survey MAY 15th, 1942
Moulded displacement at moulded draught = 85 per cent. of moulded depth 16556 tons					Surveyor's Signature J. B. Locks & Rennie
Coefficient of fineness for use with Tables .769					Particulars of Classification + 100 A1 With Freeboard (contemplated)

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= (37.38 - 27.82) x 3 = + 28.68 ✓	Moulded Breadth (B) 56.90
Stringer plate ... .62" ... .05	(b) Where D is less than Table depth (if allowed) (Table depth—D) R= 9.56 ✓	Standard Round of Beam = $\frac{B \times 12}{50}$ = 13.66
Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$ ✓	If restricted by superstructures ✓	Ship's Round of Beam = 14.00
Depth for Freeboard (D) = ✓ 37.38		Difference .34
		Restricted to ✓
		Correction = $\frac{\text{Diff}^e}{4} \times \left( 1 - \frac{S_1}{L} \right)$ = $\frac{.34}{4} = -.09$ ✓

## DEDUCTION FOR SUPERSTRUCTURES.

Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ...				
" overhang ...				
R.Q.D. enclosed ...				
" overhang ...				
Bridge enclosed ...	FLUSH DECK			
" 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  $\frac{S}{L} =$  )  
" "  $\frac{S_1}{L} =$  ) N I 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 = N I L

## SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	51.73	1	51.73	53.00	53.00	1	53.00
%L from A.P. ...	23.02	4	92.08	23.12	23.12	4	92.48
%L " ...	5.69	2	11.38	5.12	5.12	2	10.24
Amidships ...	--	4	--	--	--	4	--
%L from F.P. ...	11.38	2	22.76	11.75	11.75	2	23.50
%L " ...	46.04	4	184.16	47.37	47.37	4	189.48
F.P. ...	103.47	1	103.47	104.75	104.75	1	104.75
Total ...			465.58				473.45

Mean actual sheer aft = )  
Mean standard sheer aft = ( ) EXCESS

Mean actual sheer forward = )  
Mean standard sheer forward = ( )

Length of enclosed superstructure forward of amidships = )  
" " aft of " = ( ) N I L

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{7.87}{18} \times .75 = -.33$  ✓

If limited on account of midship superstructure. ✓

If limited to maximum allowance of 1½ 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. $\frac{.769 + .68}{1.36} = \frac{1.449}{1.36}$	88.66 ✓
Depth to Freeboard Deck = 37.38	Δ = 13758	Depth Correction ... 28.68	
Summer freeboard = 10.54	Tons per inch immersion at summer load water line	Deduction for superstructures ...	
Moulded draught (d) = 26.84	T = 48.5	Sheer correction ... .33	
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.71 = 6¾ ✓	Deduction = $\frac{\Delta}{40T}$ inches = 7.09 ✓	Round of Beam correction ... .09	
Addition for Winter North Atlantic Freeboard (if required) = ✓	= 7" ✓	Correction for Thickness of Deck amidships ...	
		Other corrections, scantlings, etc. to correspond to a summer moulded draught of 26'10" (26'10 1/8" actual) ✓	9.58
		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 ...	13 3/4"	Tropical Fresh Water Freeboard ...	9' 4 3/4"
Fresh Water Line " " ...	7"	Fresh Water " " ...	9' 11 1/2"
Tropical Line " " ...	6 3/4"	Tropical " " ...	9' 11 3/4"
Winter Line below " " ...	6 3/4"	Winter " " ...	11' 1 1/4"
Winter North Atlantic Line " " ...		Winter North Atlantic " " ...	



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.

J. Rammie  
May 15<sup>th</sup> 1942

over 17

Trade of ship..... INTERNATIONAL .....

Names of sister ships..... This vessel is the 20th of thirty sister ships Nos. 1 - 30, to be built by Todd-California Shipbuilding Division of The Permanente Metals Corporation. ....

Builder's name and yard number..... Todd-California Shipbuilding Division of The Permanente Metals Corporation - No. 20 .....

Owners ..... H. M. GOVERNMENT IN THE UNITED KINGDOM .....

Fee \$100.00 To be charged in London .....



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Foundation