

14 DEC 1942

Rpt. C.11 (Comp.).

B.T. COPY

OCEAN VANGUARD
36857 ea.

Index. No. 37097
(For London Office only)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name "OCEAN STRANGER"	Official Number 169063	Nationality and Port of Registry BRITISH <i>Manchester</i>	Gross Tonnage 7178.42	Date of Build 1942	Port of Survey So. Portland, Maine, U.S.A.
Moulded Dimensions: Length 417.35' Breadth 56.9 Depth 37.33 to upper deck. <i>To CR OF RUDDER STOCK</i> 28.48 to 2nd deck.					Date of Survey September, 1942
Moulded displacement at moulded draught = 85 per cent. of moulded depth 16556 tons					Surveyor's Signature <i>H. Gibbs</i> J. S. Carrington
Coefficient of fineness for use with Tables .769					Particulars of Classification 100A1 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) 3 = +28.68	Moulded Breadth (B) 56.90
Stringer plate05	(b) Where D is less than Table depth (if allowed) (Table depth—D) R= 37.38	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 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 **7'6"**

" " R.Q.D. ...

Deduction for complete superstructure **42 inches.**

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. ...	51.753	1	51.753	53.70	53.70	1	53.70
1/2 L from A.P. ...	23.032	4	92.128	23.40	23.40	4	93.60
1/2 L " ...	5.69	2	11.38	4.9	4.9	2	9.80
Amidships ...	x	4	x	x	x	4	x
1/2 L from F.P. ...	11.398	2	22.796	11.60	11.60	2	23.20
1/2 L " ...	46.064	4	184.256	47.40	47.40	4	189.60
F.P. ...	103.50	1	103.50	105.50	105.50	1	105.50
Total ...			465.778				475.40

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{2.62}{18} \times .75 = -.11"$

If limited on account of midship superstructure. **No. FLUSH DECK**

Mean actual sheer aft =
Mean standard sheer aft = } **EXCESS**

Mean actual sheer forward =
Mean standard sheer forward = }

Length of enclosed superstructure forward of amidships = } **FLUSH**

" " aft of " = } **DECK**

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	76.95 + 6.26
Depth to Freeboard Deck = 37.38	$\Delta = 13758$	corrected for Flush Deck (if required) 83.21
Summer freeboard = 10.54	Tons per inch immersion at summer load water line	Correction for coefficient. .769 + .68 = 1.449 = 1.065
Moulded draught (d) = 26.84	T = 48.5	1.36
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6-3/4"	Deduction = $\frac{\Delta}{40T}$ inches = 7"	Depth Correction ... 28.68
Addition for Winter North Atlantic Freeboard (if required) = x		Deduction for superstructures41
		Sheer correction40
		Round of Beam correction09
		Correction for Thickness of Deck amidships ... 9.69
		Other corrections, scantlings, etc.50
		corresponding with approved summer draught. 38.37
		Summer Freeboard = 126.50"

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck: 10'6" 10'-6 1/2"	
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.

Trade of ship..... **Dry & Perishable Cargoes.**

Names of sister ships..... **"OCEAN VANGUARD", "OCEAN LIBERTY", etc.**

Builder's name and yard number..... **Todd-Bath Iron Shipbuilding Corporation, Hull No.20**

Owners..... **British Ministry of War Transport.**

Fee £..... **\$100.00**



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