

OCEAN VANGUARD
36857

Lloyd's Register of Shipping.

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(For London Office only).

SURVEYS FOR FREEBOARD. 27 JAN 1943

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name "OCEAN MESSENGER"	Official Number 168638	Nationality and Port of Registry BRITISH London Cardiff	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. 28.48 to 2nd deck. To C.R. of RUDDER STOCK					Date of Survey September, 1942.
Moulded displacement at moulded draught = 85 per cent. of moulded depth 16556 tons					Surveyor's Signature J.S. Christman for H.R. Gibbs & Co.
Coefficient of fineness for use with Tables .769					Particulars of Classification X100A1 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=	Moulded Breadth (B) 56.90
Stringer plate05	(37.38 - 27.82) 3 = +28.68 ✓	Standard Round of Beam = $\frac{B \times 12}{50} = 13.66$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	(b) Where D is less than Table depth (if allowed) (Table depth—D) R=	Ship's Round of Beam = 14.00
Depth for Freeboard (D) = 37.38	If restricted by superstructures	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 ...					
Forecastle 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
%L from A.P. ...	23.032	4	92.128	23.40	23.40	4	93.60
%L " ...	5.69	2	11.38	4.9	4.9	2	9.80
Amidships ...	x	4	x	x	x	4	x
%L from F.P. ...	11.398	2	22.796	11.60	11.60	2	23.20
%L " ...	46.084	4	184.336	47.40	47.40	4	189.60
F.P. ...	103.50	1	103.50	105.50	105.50	1	105.50
Total ...			465.77				475.40

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{9.63}{18} \times .75 = -.41''$

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) 76.95 + 6.26	83.21
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient. .769 + .68 = 1.449 = 1.065	88.626
Depth to Freeboard Deck = 37.38	$\Delta = 13758$	1.36	
Summer freeboard = 10.54	Tons per inch immersion at summer load water line	Depth Correction ... 28.68	
Moulded draught (d) = 26.84	$T = 48.5$	Deduction for superstructures ...	
Deduction for Tropical freeboard and addition for	Deduction = $\frac{\Delta}{40T}$ inches	Sheer correction40	
Winter freeboard = $\frac{d}{4}$ inches = 6-3/4"	= 7"	Round of Beam correction09	
Addition for Winter North Atlantic Freeboard (if required) = x		Correction for Thickness of Deck amidships ...	
		Other corrections, scantlings, etc. ... and	
		corresponding with approved summer draught.	
		Summer Freeboard = 126.50"	

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, **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.25**

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

Fee £..... **\$100.00**



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