

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name **"JOHN JACOB ASTOR"** Official Number **244044** Nationality and Port of Registry **BRITISH BOMBAY** Gross Tonnage **7176** Date of Build **1943**

Port of Survey **GALVESTON TEXAS.**

Date of Survey **4 March 1947.**

Surveyor's Signature **James Lindley**

Particulars of Classification **100A1**

CLASSIFICATION CONTEMPLATED.

Moulded Dimensions: Length **417.73** Breadth **56.895** Depth **37.333**

Moulded displacement at moulded draught = 85 per cent. of moulded depth tons

Coefficient of fineness for use with Tables **.768.**

Depth for Freeboard (D).		Depth correction.		Round of Beam correction.	
Moulded depth	37.333	(a) Where D is greater than Table depth (D - Table depth) R =	$(37.39 - 27.85) 3.00$ $= + 28.62$	Moulded Breadth (B)	
Stringer plate	71" .058	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Standard Round of Beam = $\frac{B \times 12}{50}$	$= 13.65$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$		If restricted by superstructures		Ship's Round of Beam	$= 13.65$
Depth for Freeboard (D) =	37.391			Difference	$= 14.05$
				Restricted to	$= 4.0$
				Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right)$	$= -1.0$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...						Standard Height of Superstructure
" overhang ...						" " R.Q.D.
R.Q.D. enclosed ...						Deduction for complete superstructure
" overhang ...						Percentage covered $\frac{S}{L} =$
Bridge enclosed ...						" " $\frac{S_1}{L} =$
" overhang aft ...						" " $\frac{E}{L} =$
" overhang forward						Percentage from Table, Line A.
F'cle enclosed ...						(corrected for absence of forecastle (if required))
" overhang ...						Percentage from Table, Line B.
Trunk aft ...						(corrected for absence of forecastle (if required))
" forward ...						Interpolation for bridge less than 2L (if required)
Tonnage opening aft ...						Deduction =
" " forward						
Total ...						

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ...	51.77	1		51.77	54.12	54.12	1		54.12	Mean actual sheer aft =
1/4 L from A.P. ...	22.04	4		91.84	24.00	24.00	4		96.00	Mean actual sheer forward =
1/2 L " ...	5.67	2		11.38	5.00	5.00	2		10.00	Mean standard sheer forward =
Amidships ...		4					4			Length of enclosed superstructure forward of amidships =
3/4 L from F.P. ...	11.34	2		22.78	11.75	11.75	2		23.50	" " aft of " =
1/4 L " ...	46.08	4		184.32	47.75	47.75	4		191.00	
F.P. ...	103.55	1		103.55	105.37	105.37	1		105.37	
Total ...				465.96					479.99	
Correction =	Difference between sums of products $\left(\frac{75-S}{2L} \right) = \frac{15.71403}{18} \times 75 = -65.58$									Excess.
If limited on account of midship superstructure.										Excess.

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient $\frac{768+68}{1.36}$
Depth to Freeboard Deck = 37.39	$\Delta =$	Depth Correction ... 28.62
Summer freeboard = 9.73	Tons per inch immersion at summer load water line	Deduction for superstructures58
Moulded draught (d) = 27.66	T =	Sheer correction10
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 7"	Deduction = $\frac{\Delta}{40T}$ inches = $\frac{7.4}{40 \times 1.36} = 0.136$	Round of Beam correction ...
Addition for Winter North Atlantic Freeboard (if required) =		Correction for Thickness of Deck amidships ...
		Other corrections, scantlings, etc. ...
		Summer Freeboard = 16.62

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

Tropical Fresh Water Line above Centre of Disc	2' 2 1/4" = 362 m.m.	Tropical Fresh Water Freeboard	9' 8 3/4" = 2965 m.m.
Fresh Water Line	7' 1/4" = 184 m.m.	Fresh Water	8' 6 1/2" = 2603 m.m.
Tropical Line	7' = 178 m.m.	Tropical	9' 1 1/2" = 2781 m.m.
Winter Line below	7' = 178 m.m.	Winter	9' 13 1/4" = 2787 m.m.
Winter North Atlantic Line		Winter North Atlantic	10' 3 3/4" = 3143 m.m.

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.

Names of sister ships.

"LIBERTY" SHIP.

Builder's name and yard number.

OREGON SHIPBUILDING CORP. No. 737.
~~PERMANENTE METALS CORP. No. 2156~~

Owners.

SCINDIA STEAM NAVIGATION Co.

Fee £



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