

Vic 78.
37766.

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name VIC 101	Official Number 166698	Nationality and Port of Registry BRITISH. LOWESTOFT.	Gross Tonnage 132	Date of Build 1945	Port of Survey IPSWICH
Moulded Dimensions: Length 79-10 Breadth 20-0 Depth 9-6					Date of Survey 6-3-45
Moulded displacement at moulded draught = 85 per cent. of moulded depth 258 tons					Surveyor's Signature Boysell
Coefficient of fineness for use with Tables .70					Particulars of Classification 100A1. LIMITS TO BE DEFINED.

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	9-6"	(a) Where D is greater than Table depth (D-Table depth) R = $(9.52 - 5.32) \times .614 = +2.58$		Moulded Breadth (B)	20'
Stringer plate02	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = 4.2		Standard Round of Beam = $\frac{B \times 12}{50}$	4.8"
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	✓	If restricted by superstructures		Ship's Round of Beam	= NIL
Depth for Freeboard (D) =	9.52			Difference	4.8"
				Restricted to	✓
				Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L}\right)$	= $\frac{4.8}{4} \times .5042 = +60$

DEDUCTION FOR SUPERSTRUCTURES.					
Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed	6-6"	6-0"	✓	6.50	Standard Height of Superstructure 6'-0"
" overhang	✓	3-0"	✓	19.25	" " R.Q.D. 3'-0"
R.Q.D. enclosed	19-3"	6-0"	✓	19.25	Deduction for complete superstructure 13.98
" overhang	✓	✓	✓	13.83	Percentage covered $\frac{S}{L} =$
Bridge enclosed	✓	✓	✓	13.83	" " $\frac{S_1}{L} =$
" overhang aft	✓	✓	✓	13.83	" " $\frac{E}{L} =$
" overhang forward	✓	✓	✓	13.83	Percentage from Table, Line A. 31.64
F'cle enclosed	13-10"	7-0"	✓	13.83	(corrected for absence of forecastle (if required))
" overhang	✓	✓	✓	13.83	Percentage from Table, Line B. ✓
Trunk aft	✓	✓	✓	13.83	(corrected for absence of forecastle (if required)) ✓
" forward	✓	✓	✓	13.83	Interpolation for bridge less than .2L (if required) ✓
Tonnage opening aft	✓	✓	✓	13.83	Deduction = 13.98 * .3164 = -4.42
" " forward	✓	✓	✓	13.83	
Total	39.58	39.58		39.58	

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	17.98	1	17.98	✓	17.98	1	17.98
$\frac{1}{8}L$ from A.P.	8.00	4	32.00	✓	17.98	4	71.92
$\frac{2}{8}L$ "	1.98	2	3.96	✓	17.98	2	35.96
Amidships	-	4	-	✓	17.98	4	71.92
$\frac{2}{8}L$ from F.P.	3.96	2	7.92	✓	17.98	2	35.96
$\frac{1}{8}L$ "	16.00	4	64.00	✓	17.98	4	71.92
F.P.	35.97	1	35.97	✓	17.98	1	17.98
Total			161.83	✓	17.98		161.83

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{161.83}{18} \left(.75 - \frac{24.79}{79} \right) = +4.51$
If limited on account of midship superstructure. **✓** If limited to maximum allowance of 1 1/2 ins. per 100 ft. **✓**

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	7.98
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient $\frac{.70 + .68}{1.36} = \frac{1.38}{1.36}$	8.10
Depth to Freeboard Deck = 9.52	$\Delta =$	Depth Correction	2.58
Summer freeboard = .94	Tons per inch immersion at summer load water line	Deduction for superstructures	- 4.42
Moulded draught (d) = 8.58	T =	Sheer correction	4.51
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 2.14 = 2 1/4	Deduction = $\frac{\Delta}{40 T}$ inches = 2"	Round of Beam correction60
Addition for Winter North Atlantic Freeboard (if required) = ✓		Correction for Thickness of Deck amidships	-
		Other corrections, scantlings, etc.	-
		7.69	4.42
		Summer Freeboard = 11.37	

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood Steel, Deck :-			
Tropical Fresh Water Line above Centre of Disc	not assigned	Tropical Fresh Water Freeboard	0'-11 1/4"
Fresh Water Line " "	not assigned	Fresh Water	0'-9 1/4"
Tropical Line " "	not assigned	Tropical	1'-1 1/2"
Winter Line below " "	not assigned	Winter	1'-1 1/2"
Winter North Atlantic Line " "	not assigned	Winter North Atlantic	1'-1 1/2"

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 COASTING.

Names of sister ships "Vic 79 & 80"

Builder's name and yard number RICHARDS IRONWORKS LD. YARD N^o 356.

Owners MINISTRY OF WAR TRANSPORT.

Fee £



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Foundation