

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

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

Ship's Name Vic. 99.	Official Number 180443	Nationality and Port of Registry BRITISH HULL.	Gross Tonnage 146	Date of Build 1945	Port of Survey HULL.
Moulded Dimensions: Length 80'0" Breadth 20'0" Depth 9'6"					Date of Survey During construction
Moulded displacement at moulded draught = 85 per cent. of moulded depth 248 tons					Surveyor's Signature J. M. M. M. M.
Coefficient of fineness for use with Tables .68 (672 actual) T = 3.22.					Particulars of Classification +100 A1. COASTING SERVICE. LIMIT PORTS. UK. CHANNEL ISLANDS, ISLE OF MAN, EIRE EXCLUDING WEST OF IRELAND

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 9'50"	(a) Where D is greater than Table depth (D - Table depth) R = (9.525 - 5.33) × .615 = +2.58 4.195	Moulded Breadth (B) 20'0"
Stringer plate ... 30025	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = ✓	Standard Round of Beam = $\frac{B \times 12}{50} = \frac{20 \times 12}{50} = 4.80$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ ✓	If restricted by superstructures ✓	Ship's Round of Beam = NO CAMBER.
Depth for Freeboard (D) = 9'52.5"		Difference 4.80
		Restricted to ✓
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{4.80}{4} \times .5032 = +.60$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	6'50"	6'50"	7'25"	-	6'50"
" overhang	✓				
R.Q.D. enclosed	19'25"	19'25"	3'00"	-	19'25"
" overhang	✓				
Bridge enclosed					
" overhang aft					
" overhang forward					
F'cle enclosed	14'00"	14'00"	7'00"	-	14'00"
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	39'75"	39'75"			39'75"

Standard Height of Superstructure 6'0"
" " R.Q.D. 3'0"
Deduction for complete superstructure 14'
Percentage covered $\frac{S}{L} =$
" " $\frac{S_1}{L} =$ 49.68
" " $\frac{E}{L} =$
Percentage from Table, Line A. 31.72
(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 = 14 × 31.72 = -4.44.

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	18'00"	1	18'00"	32.00	32.00	32.00	1	18'00"	32.00
$\frac{1}{8}L$ from A.P.	8'01"	4	32'04"	0	0	0	4	32'04"	0
$\frac{2}{8}L$ "	1'98"	2	3'96"	0	0	0	2	3'96"	0
Amidships	-	4	-	0	0	0	4	-	0
$\frac{3}{8}L$ from F.P.	3'96"	2	7'92"	0	0	0	2	7'92"	0
$\frac{4}{8}L$ "	16'02"	4	64'08"	0	0	0	4	64'08"	0
F.P.	36'00"	1	36'00"	0	0	0	1	36'00"	0
Total			162'00"	0	0	0			0

Mean actual sheer aft
Mean standard sheer aft = **Nil.**

Mean actual sheer forward
Mean standard sheer forward = **Nil.**

Length of enclosed superstructure forward of amidships = **Does not apply**
" " aft of " = **Does not apply**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{162}{18} \left(.75 - \frac{39.75}{2 \times 80} \right) = \frac{162}{18} \left(.75 - .2484 \right) = 5.016$
If limited on account of midship superstructure.

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft. **✓**

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
Depth to Freeboard Deck = 9'52"	$\Delta =$ 277	Depth Correction 2'58"
Summer freeboard = 0'94"	Tons per inch immersion at summer load water line	Deduction for superstructures 4'44"
Moulded draught (d) = 8'58"	T = 3.26	Sheer correction60"
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 2.14 = 2 1/4	Deduction = $\frac{\Delta}{40 T}$ inches = 2.12 = 2 1/4	Round of Beam correction -
Addition for Winter North Atlantic Freeboard (if required) = ✓	MEAN DRAUGHT = 8'6" EXT. D IS P = 270 T = 3.26	Correction for Thickness of Deck amidships -
	7'6" 231 3.17	Other corrections, scantlings, etc. -
	6'6" 193 3.07	
		Summer Freeboard = 11'25"

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

Tropical Fresh Water Line above Centre of Disc Nil. as required	Tropical Fresh Water Freeboard 0'-11 1/4"
Fresh Water Line " 2"	Fresh Water " 0'-9 1/4"
Tropical Line " Nil. as required	Tropical " 1'-1 1/2"
Winter Line below " 2 1/4"	Winter " ✓
Winter North Atlantic Line " Nil. as required	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 "COASTING SERVICE."

Names of sister ships "VIC. 81." "VIC. 82."

Builder's name and yard number JOHN HARKER LTD. KNOTTINGLEY. YARD NO 184.

Owners MINISTRY OF WAR TRANSPORT.

Fee £ 4 : 0 : 0

TO BE CHARGED WITH FIRST ENTRY.



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Foundation