

19/4/47.

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

SURVEY FOR FREEBOARD

STEAMER, ~~TANKER~~ ^{EX} ~~SAILER~~ ^{S/S} **BARON HERRIES** WITH TIMBER DECK CARGO
WITHOUT

Nationality **BRITISH. GREEK** Builders' Name and No. of Ship **LITHGOWS LTD. NO 926.**

Port of Registry **ARROBEEAN.** Owners **KELVIN SHIPPING CO LTD. GLASGOW.**

Official Number **163849.** Port and Date of survey **MIDDLESBROUGH. APRIL 1947**

Gross Tonnage **4573.53.** Name of Surveyor **J. D. RUFUS.**

Date of Build **1940.** Names of Sister Ships **BARON SCOTT.**

Particulars of Classification **B.5 *** Type of Superstructures **SHELTER DECK WITH MIDDLE LINE OPENING AFT.**

Trade of Ship

Service Endorsement if any

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (.....wood.....steel)

TROPICAL FRESH WATER LINE above centre of disc	12½"	Corresponding Freeboard	3'- 1½"
FRESH WATER LINE " " "	6½"	" "	2'- 1"
TROPICAL LINE " " "	6	" "	2'- 7"
WINTER LINE below " "	6	" "	2'- 7½"
WINTER NORTH ATLANTIC LINE " " "	-	" "	3'- 7½"

SUMMER TIMBER FREEBOARD recommended amidships from top of deck line

TROPICAL FRESH WATER Timber line above L.S.		Corresponding Freeboard
FRESH WATER " " " "		" "
TROPICAL " " " "		" "
WINTER " " below "		" "
WINTER NORTH ATLANTIC " " " "		" "

Number of years recommended for load line certificate

Date of issue 24/4/47.
renewal 23/4/52.

The scantlings and protective arrangements being in accordance with the Load Line Rules it is submitted that the freeboards be assigned

William May
for Chief Surveyor

Passed at a meeting of the Committee of Management of the British Corporation Register of Shipping and Aircraft

on the 7th May, 1947



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Lloyd's Register
Foundation
Secretary

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COMPUTATION OF FREEBOARD

Length on summer load line	Moulded Breadth	Moulded Depth	Depth of Keel
Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth			Tons
Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times .85} =$			
Displacement and tons per inch immersion in salt water at summer load line			
Moulded depth	Deduction for Fresh Water $\frac{\Delta}{40 T} =$	inches	
Stringer Plate	Round of Beam Correction		
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right)$	Ships Round of Beam	inches	
Rise of floor (in sailers)	Standard Round of Beam $\frac{B \times 12}{50}$		
Depth for Freeboard (D)	Difference		
Table Depth	Restricted to		
Depth Correction	Correction $\frac{\text{Difference}}{4} \times \left(1 - \frac{E}{L} \right) =$		
If restricted by superstructures			

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)	
Poop							Standard Height of Superstructure
Raised Quarter Deck							" " R.Q.D.
Bridge		F					Percentage covered S/L =
		A					" " E/L =
Forecastle							" from Table line A, B, (corrected for absence of forecastle if required)
Trunk Aft							Percentage from Table by interpolation for Bridge
" Forward							less than .2L if required =
Tonnage Opening Aft							Deduction =
" " Forward							Percentage from Table for Tankers (or Timber ships) =
Totals							Deduction =

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.				1	
$\frac{1}{8}$ L from A.P.				4	
$\frac{1}{8}$ L from A.P.				2	
Amidships				4	
$\frac{1}{8}$ L from F.P.				2	
$\frac{1}{8}$ L " "				4	
F.P.				1	
				18	

Effective Mean Sheer	=	
Standard " " .05L + 5	=	
Difference		

Mean Actual sheer aft	=	
" Standard " "		
Mean Actual sheer forward	=	
" Standard " "		
Length of enclosed superstructure forward of amidships	=	
Length of Ship		
Length of enclosed superstructure aft of amidships	=	
Length of Ship		
Sheer Correction = Difference $\times \left(.75 - \frac{S}{2L} \right) =$		
If limited on account of midship superstructure	=	
" to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.	=	

TABULAR FREEBOARD corrected for flush deck if required =

Correction for co-efficient =

	+	-
Depth correction		
Deduction for superstructures		
Sheer correction		
Round of Beam correction		
Correction for thickness of deck amidships		
Other corrections, scantlings, etc.		

Summer Freeboard in inches	=	
Additional allowance for superstructures on		
Timber carrying ships	=	
Summer Timber Freeboard in inches	=	

DRAUGHTS AND SEASONAL CORRECTIONS

	Sailer, Tanker, Steamer	Timber
Depth to Freeboard Deck in feet		
Summer Freeboard in feet		
Moulded Draught (d)		(d1)
Addition for Keel		
Extreme draught		
Deduction for Tropical and addition for Winter freeboard $d/4 =$		ins.
Addition for Winter North Atlantic (if required)		ins.
Deduction for Tropical Timber Freeboard $d/4 =$		ins.
Addition for Winter " " $d \frac{1}{3} =$		ins.
" " N.A. Timber Freeboard (if required) =		ins.