

19/4/47.

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT
SURVEY FOR FREEBOARD

ATHOS II

STEAMER, ~~TANKER~~ ^{EX S/S} SAILED: BARON HERRIES ~~WITH~~ ^{WITHOUT} TIMBER DECK CARGO
 Nationality BRITISH. GREEK Builders' Name and No. of Ship LITHGOWS LTD. NO 926.
 Port of Registry ARROSOBAN.
 Official Number 163849. Owners KELVIN SHIPPING CO L^{TD}. GLASGOW.
 Gross Tonnage 4573.53.
 Date of Build 1940. Port and Date of survey MIDDLESBROUGH. APRIL 1947
 Name of Surveyor J. D. RUFUS.
 Particulars of Classification B.S * Names of Sister Ships BARON SCOTT.
 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	<u>12 1/2"</u>	Corresponding Freeboard	<u>3'- 1 1/2"</u>
FRESH WATER LINE " " "	<u>6 1/2"</u>	" "	<u>2'- 1"</u>
TROPICAL LINE " " "	<u>6</u>	" "	<u>2'- 7"</u>
WINTER LINE below " "	<u>6</u>	" "	<u>2'- 7 1/2"</u>
WINTER NORTH ATLANTIC LINE " " "	<u>-</u>	" "	<u>-</u>

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

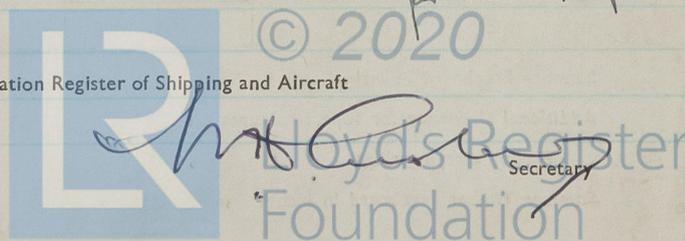
Date of issue 24/4/47.
 expiry 23/4/52.

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



002592-007601-0257

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	
$\frac{1}{3}$ L from A.P.				4	
$\frac{1}{3}$ L from A.P.				2	
Amidships				4	
$\frac{1}{3}$ L from F.P.				2	
$\frac{1}{3}$ L „ „				4	
F.P.				1	
				18	

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 „ „ $\frac{d}{3} =$		ins.
„ „ N.A. Timber Freeboard (if required) =		ins.