

THE BRITISH CORPORATION REGISTER OF  
SHIPPING AND AIRCRAFT

## SURVEY FOR FREEBOARD

STEAMER, ~~TANKER, SAILER~~ <sup>S.M.</sup> ~~EMPIRE~~ FAVOURITE <sup>FORMALITY</sup> ~~WITH~~ WITHOUT TIMBER DECK CARGO

Nationality BRITISH Builders' Name and No. of Ship GOOKE SHIPBUILDING & REPAIR CO  
 Port of Registry ~~GOOKE~~ LONDON GOOKE N° 419.  
 Official Number 180120 Owners MINISTRY OF WAR TRANSPORT.  
 Gross Tonnage 409.77 (Mars) ROBERT RIX & SONS LTD. HULL.  
 Date of Build JULY 1944. Port and Date of survey GOOKE DURING CONSTRUCTION.  
 Name of Surveyor E. HENDERSON.  
 Particulars of Classification BS\* (COASTING SERVICE). Names of Sister Ships EMPIRE FACTOR, EMPIRE FAIRHAVEN etc.  
 Type of Superstructures POOP & FORECASTLE  
 Trade of Ship  
 Service Endorsement if any

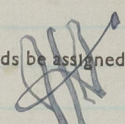
SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (.....wood.....steel)			1'-6"
TROPICAL FRESH WATER LINE above centre of disc	2 1/2"	Corresponding Freeboard	1'-3 1/2"
FRESH WATER LINE " " "	2 1/2"	" "	1'-3 1/2"
TROPICAL LINE " " "	0"	" "	1'-6"
WINTER LINE below " "	2 1/2"	" "	1'-8 1/2"
WINTER NORTH ATLANTIC LINE " " "	4 1/2"	" "	1'-10 1/2"

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

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

  
 Chief Surveyor

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

on the 2ND AUGUST 1944



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Secretary

002682-002689-0014 1/2



## COMPUTATION OF FREEBOARD

Length on summer load line 141'0" Moulded Breadth 27'0" Moulded Depth 11'0" Depth of Keel 1/2  
 Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth 725 Tons  
 Co-efficient of fineness for use with tables  $\frac{\Delta \times 35}{L \times B \times D \times 85} = .713$   
 Displacement and tons per inch immersion in salt water at summer load line 742 @ 7.95 t.p.i.  
 Moulded depth 11'000 Deduction for Fresh Water  $\frac{\Delta}{40T} = 2.333$  inches  
 Stringer Plate 3/8" .031 Round of Beam Correction  
 Sheathing on exposed deck T  $\left(\frac{L-S}{L}\right)$  - Ships Round of Beam 0'00 inches  
 Rise of floor (in sailers) - Standard Round of Beam  $\frac{B \times 12}{50} = 6.48$   
 Depth for Freeboard (D) 11'031 Difference 6.48  
 Table Depth 11/15 9'400 Restricted to  
 Depth Correction 11/30 1'631 Correction  $\frac{\text{Difference}}{4} \times \left(1 - \frac{S}{L}\right) = 1.62 \times .2262$   
 If restricted by superstructures 1'769 on. 3665 on.

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop	37'6 3/4	-	7'0"	41'26	-	41'26
Raised Quarter Deck	-	-	-	-	-	-
Bridge	-	F	-	-	-	-
	-	A	-	-	-	-
Forecastle	13'8 1/2	1'10"	8'0"	15'63	-	14'83
Trunk Aft	35'1"	-	1'0"	18'27	-	23'39
" Forward	27'10"	-	3'4"	18'27	-	8'26
Tonnage Opening Aft	18'10"	-	3'4"	14'71	-	4'56
" Forward	-	-	-	-	-	-
Totals	2'67 on Account of Low CORRECTIONS ON TWO MATCHES	23'39	18'56	56'89	52'21	92'30

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.				1	
1/8 L from A.P.				4	
1/8 L from A.P.				2	
Amidships				4	
1/8 L from F.P.				2	
1/8 L " "				4	
F.P.				1	
				18	

Effective Mean Sheer =  
 Standard " " .05L + 5 = 12'05"  
 Difference 12'05"  
 Mean Actual sheer aft = LESS THAN 1  
 " Standard " " "  
 Mean Actual sheer forward = LESS THAN 1  
 " Standard " " "  
 Length of enclosed superstructure forward of amidships =  
 Length of Ship  
 Length of enclosed superstructure aft of amidships =  
 Length of Ship  
 Sheer Correction = Difference  $\times \left(75 - \frac{S}{2L}\right) = 12.05 \times .5483$   
 = 6'607 on.  
 If limited on account of midship superstructure =  
 " to maximum allowance of 1 1/2 ins. per 100 ft. =

TABULAR FREEBOARD corrected for flush deck if required = 14'33

Correction for co-efficient = 1393/136 = 14'68 DRAUGHTS AND SEASONAL CORRECTIONS

	+	-	Sailor, Tanker, Steamer	Timber
Depth correction	1'77	-		
Deduction for superstructures	-	11'11		
Sheer correction	6'61	-		
Round of Beam correction	3'7	-		
Correction for thickness of deck amidships	-	-		
Other corrections, scantlings, etc.	5'68	-		
	14'43	11'11	3'32	
Summer Freeboard in inches	1'6"	=	18'00	
Additional allowance for superstructures on Timber carrying ships	=			
Summer Timber Freeboard in inches	=			

✓ AGREED WITH D.M.B. THAT MOULDED DRAUGHT IN S.W. SHOULD BE RESTRICTED TO 9'6 3/8"

Form LL. 4.D.

# THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

## SURVEY FOR FREEBOARD

### CONDITIONS OF ASSIGNMENT

SHIPS NAME

"EMPIRE FAVOURITE"

OFFICIAL NUMBER 180120.

Nationality and Port of Registry

BRITISH Gooke.

## PARTICULARS OF SUPERSTRUCTURES, TRUNKS, CASINGS, DECKHOUSES

	Coaming	Plating	Stiffeners	Spacing	End Attachments	No. and size of Openings	Height of Sills	Height of Casings
Poop Bulkhead		5/16" x 1/4"	5" x 5/16"	2'-3"	WELDED	2@10" dia.	5'-7"	7'-0"
R.Q.D. "								
Bridge Aft Bulkhead								
" Forward "								
Forecastle Bulkhead		5/16"	3" x 3" x 1/4"	2'0" x 16"	-	2@4" x 11" x 10"	1'-3"	8'-0"
Trunk, Aft	5/16"	1/4"	4" x 5/16" x 3/16"	1'-8" x 1'-10"		-	-	7'-0"
" Forward		5/16"	4" x 5/16"	1'-8"		-	-	3'-4"
Exposed Machinery Casings on Freeboard or R.Q. Decks								
Exposed Machinery Casings on superstructure decks	5/16"	1/4"	4" x 5/16"	1'-9"	WELDED AT 100 BRACKET AT 8/16"	-	-	8'-3"-8'-5"
Machinery Casings within Superstructures not fitted with Cl. 1 closing appliances								
Deckhouses on flush deck ships								

## PARTICULARS OF CLOSING APPLIANCES (state if capable of being manipulated from both sides)

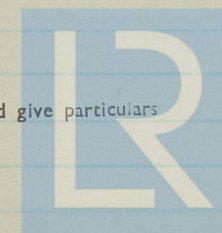
Poop Bulkhead	NO OPENING
R.Q.D. "	
Bridge Aft Bulkhead	
" Forward "	
Forecastle Bulkhead	HINGED STEEL DOORS OPERATED BOTH SIDES
Exposed Machinery Casings on Freeboard or R.Q. decks	
Exposed Machinery Casings on superstructure decks	
Machinery Casings within superstructures not fitted with Cl. 1 Closing Appliances	
Deck houses on Flush Deck ships	

## PARTICULARS OF FREEING ARRANGEMENTS

	Length of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side	Area each side	Rule Area
After Well	See Sketch				
Forward Well					
State fore and aft position and height above deck to bottom of port, for each port			After Well		
			Forward Well		

State whether freeing ports are fitted with shutters, bars or rails, and give particulars

Give particulars of freeing port area, etc., on superstructure decks



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As this vessel is less than 250'-0" in length  
the Freeboard Report has not been compared with the  
approved plans.

0014 <sup>2</sup>/<sub>2</sub>

26 JUL 1950







Scuppers and Sanitary Discharge Pipes (state material, type and number of valves)

PORT	1-2'	GUNMETAL. SCREW DOWN VALVE STRAIGHT THRO. TYPE SPINDLE EXTENDED TOOL.
STAR	2-2'	" " " " " " " " " " " "
STAR	1-4'	" " " " " " " " " " " "

Side Scuttles to spaces below freeboard and superstructure decks (state type or pattern, and if permanent or portable deadlights are supplied)

10' DIA CLEAR GLASS HINGED SIDE LIGHTS IN POOP SIDES WITH PERMANENT DEADLIGHTS.  
8' " " " " " " " FORECASTLE " " "

Vertical distance of sill of lowest side scuttle below top of freeboard deck at side amidships

Guard Rails on freeboard and superstructure decks (state type and where fitted)

3' x 2 1/2" STANCHIONS WITH 1" TOP RAIL & 2 LOWER RAILS IN WAY OF CARGO HAIRCHES.  
3' x 2 1/2" Stanchions fitted around sides & after end poop deck.  
3' x 2 1/2" " " across forecathle deck after End.

## Gangways and Lifelines

1 1/2 STEEL WIRE LIFE LINE FROM POOP TO FORECASTLE.  
1 1/2 " " " " FITTED AROUND EACH HATCH.

Gangway, Cargo and Coaling Ports in sides of ship

None.

SUPPLEMENTARY REQUIREMENTS FOR STEAMER CARRYING TIMBER DECK CARGOES

### Do Superstructure and Machinery Casings comply with rules ?

Is provision made for protection of steering gear?

Is emergency steering gear provided?

Are efficient sockets and eyes for lashings provided and properly spaced?

State particulars of longitudinal subdivision in double bottom

### State particulars of Bulwarks and Rails

Particulars of any Special Features in the construction of the Ship

Endorsement at first survey and at surveys for Renewal of Certificate:—

The fittings and appliances are in accordance with the particulars shown in the form and are in good condition



Give full particulars of the following:—

Fiddle, Funnel and Vent Coamings, Engine Room skylight and other openings in Machinery Casing tops and their means of closing (state height of coamings, type of fiddle covers, and if these are permanently attached in their proper positions)

1-COWL VENT P&S. 10" DIA. 2'-0" COAMING WELDED TO CASING TOP. 8'-5" ABOVE DECK.  
 1-G.N. " " 4" " 1'-0" ABOVE CASING " " " 8'-5" "  
 2 HINGED STEEL SKYLIGHT FLAPS P&S. 2'-3" X 2'-0". NO BOLLIES ON C. TOP 7'-6" "

Flush Bunker Scuttles on freeboard and superstructure decks (state material, type of joints, etc., and if secured by hinge or permanent chain attachment)

— NONE —

Companionways on freeboard and superstructure decks (state material, height of doorway sills, type of doors, and if these can be closed and secured from both sides)

ENTRANCE TO OFFICERS ACCOMMODATION. IS STL. COAMING. OPERATED BOTH SIDES.  
 " " CARGO. " " " " " "  
 " " E. ROOM. " " " " " "

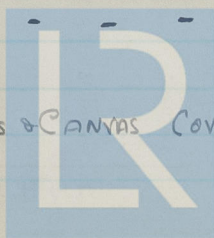
Ventilators in exposed positions on freeboard, raised quarter and superstructure decks to spaces below freeboard decks and fully enclosed superstructures enclosed by Class 1 appliances (state height of steel coamings, pitch of rivets in deck connection, type of closing arrangements)

3-6" COWL VENT PORT. 3'-0" COAMING WELDED TO DECK. - TO ACCOM. & GALLEY.  
 3-6" " " STAR. " " " " " " & SALOON.  
 5-5" G.N. " PORT. 2'-2" " " " " PANTRY, CREWS SPACE, D.E.M.S. & AFT STORE.  
 4-5" " " STAR. " " " " " " WASHPLACES, W.C. & AFT STORE.  
 1-5" " " ON & " " " " " " D.E.M.S.  
 2-5" M. " PORT " " " " " " CREWS SPACE & D.E.M.S.  
 2-5" " " STAR. " " " " " " ACCOM. & W.C.  
 1-5" M. " STAR. " " " " " " ACCOM.

Airpipes in exposed positions on freeboard, raised quarter and superstructure decks (state height to opening and if satisfactory closing arrangements are provided)

1-3" G.N. AIRPIPE. ON & 2'-0" ABOVE FORECASTLE BOWED TO DECK - TO FOREPEAK.  
 1-3" " " P&S. 2'-3" " UPPER DECK WELDED " " FITTED WITH GAUZE - TO F.P. COFFER DAM.  
 1-5" " " P&S. 3'-4" " " " " " " " NOS. 1, 2, 3, 4 TRANSVERSE CO.  
 1-3" " " S. 1'-6" " POOF " " " " " " - AFT PEAK COFFER DAM  
 1-2 1/2" " " P&S. 5'-6" " UPPER " " " " " " NO 1. D. BOTTOM.  
 1-2 1/2" " " P&S. 9'-9" " " " " " " " NO 2. D. BOTTOM.

ALL AIR PIPES FITTED WITH WOOD PLUGS & CANVAS COVERS.



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