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British and British 1

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

122

SURVEY FOR FREEBOARD

STEAMER, ~~TANKER, SAILER~~ "BARON HAIG" S.S. ~~WITHOUT~~ ^{WITH} TIMBER DECK CARGO

Nationality British Builders' Name and No. of Ship Aggrethire Dockyard Co., Ltd
Port of Registry Ardrossan Irvine Yard No 496
Official Number 148986 Owners Hogarth Shipping Co., Ltd
Gross Tonnage 3391 3503
Date of Build 2/1926 Port and Date of Survey Burntisland May 32
Name of Surveyor A. Macarthur
Particulars of Classification B.S. X Names of Sister Ships Barons Ogilvy, Lovat, Pentland, Saltoun,
Cochrane, Yarrowburgh, & Newlands

Type of Superstructures Poop, Bridge and Forecastle, disconnected.

Give full particulars of the following:—

Fiddley and Funnel Coamings (state height of coamings, type of fiddley covers, and if these are permanently attached in their proper positions)

Hinged plate covers

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

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)

Ventilators in exposed positions on freeboard, raised quarter and superstructure decks (state height of steel coamings, pitch of rivets in deck connection, type of closing arrangements) File: - 24"

Forewell: - 36', 4" riv. plth. Bridge 30', 3 1/2" r.p. Mushroom 18" s.d. + canvas cover

Aft " : - Coast' umb. supplied with wood plugs + canvas covers
Poop 18" mushroom s.d. + canvas C.V. 30"

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

Fore + Aft Wells: - 42" wood plug + lanyard
Bridge 2k. : - 36 " " "
Poop " : - 2 1/2 " " "
File " : - 18 " " "

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

File houses: - lead pipe, iron valve, have flap + discharge above U.D.

Bridge + tween decks scuppers discharge into bilges, cemented over at inboard ends

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

File: - Brass frs, + hinged deadlights

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

Poop + File 3'-6" 2 rails
Bridge " " 3 rails



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Lloyd's Register
Foundation

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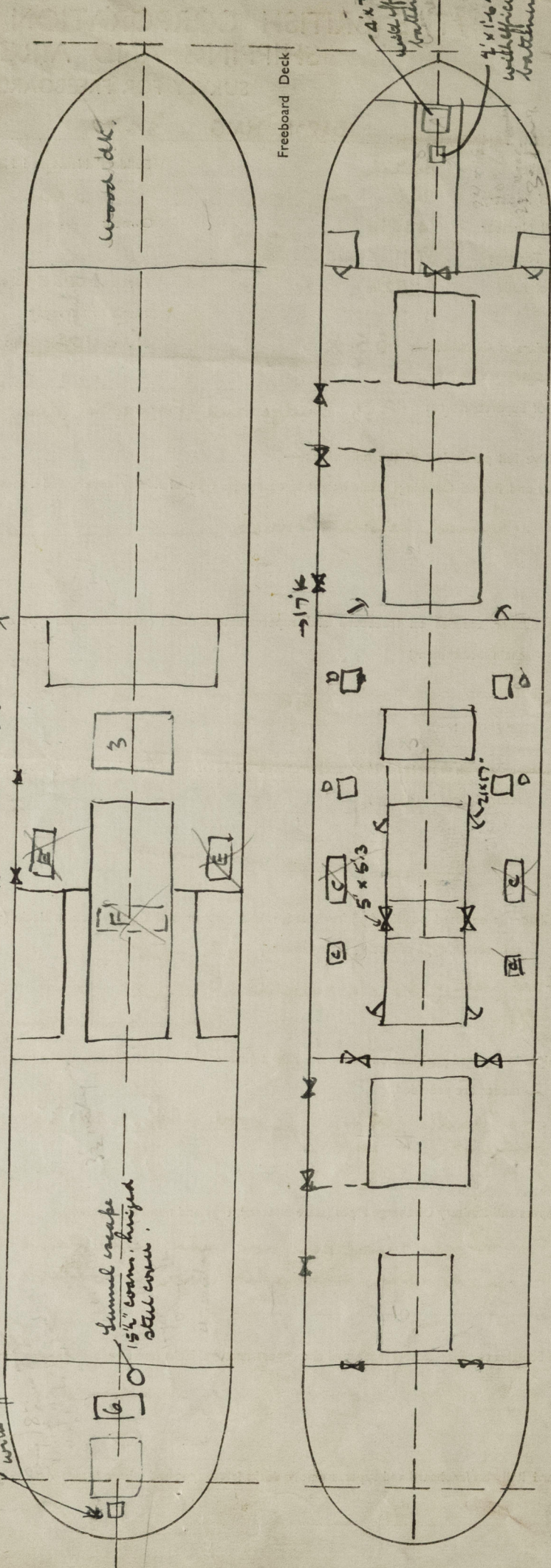
The Freeboard Report has been compared with the
approved plans and found in order.

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SURVEY FOR FREEBOARD

11 JUL 1950

Superstructure Deck



Statement of special features in the construction of the ship

OMIT

Length on summer load line 240' Moulded Breadth 48'-6" Moulded Depth 25'-6" Depth of Keel

Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth 7972 Tons

Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times .85} = .787$ ✓ T.C. .78

Displacement and tons per inch immersion in salt water at summer load line 7845^T 33.7 TPI @ 1000 lbs

Moulded depth 25'-3 1/2" Deduction for Fresh Water $\frac{\Delta}{40T} = 5.83 = 6"$ inches

Stringer Plate .42" Round of Beam Correction

Sheathing on exposed deck T $(\frac{L-S}{L})$ none Ships Round of Beam 12.25 inches

Rise of floor (in sailers) ✓ Standard Round of Beam $\frac{B \times 12}{50}$ 11.64

Depth for Freeboard (D) 25.327 ✓ Difference 61 ✓

Table Depth 22.667 ✓ Restricted to

Depth Correction $\frac{1}{30} \times \frac{22.667}{2.66} = 6.957"$ ✓ Correction $\frac{\text{Difference}}{4} \times (1 - \frac{E}{L}) = .1525 \times .486 = .0742"$ ✓

If restricted by superstructures ✓

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop	35.62 ✓		7'-6"	35.62 ✓		35.62
Raised Quarter Deck		F				
Bridge	104. ✓	A	7'-6"	104. ✓		104. ✓
Forecastle	35.71 ✓		7'-6"	35.71 ✓		34.84
Trunk Aft				wooded		
Forward						
Tonnage Opening Aft						
Forward						
Totals				175.3 ✓		174.46

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.	49.5	44.	49.5	1	49.5
$\frac{1}{2}$ L from A.P.	21	19.58	21.	4	84.
$\frac{1}{2}$ L from A.P.	5	484	5.	2	10.
Amidships	0	0.	0.	4	0.
$\frac{1}{2}$ L from F.P.	11	9.68	11.	2	22.
$\frac{1}{2}$ L	42	39.16	42.	4	168
F.P.	46	88.	46.	1	96
				18	429.5
Effective Mean Sheer				=	23.861
Standard „ „	-.05L + 5			=	22.
		Difference			1.861

TABULAR FREEBOARD corrected for flush deck if required = 53.7

Correction for co-efficient = $53.7 \times \frac{1.467}{1.31} = 57.92$

Depth correction	6.96	
Deduction for superstructures		12.12 ✓
Sheer correction		.92 ✓
Round of Beam correction		.07 ✓
Correction for thickness of deck amidships	✓	
Other corrections, scantlings, etc.	✓	
	6.96 ✓	15.17 - 8.21 ✓

Summer Freeboard in inches	=	49.71
Additional allowance for superstructures on		
Timber carrying ships	=	
Summer Timber Freeboard in inches	=	

	Sailer, Tanker, Steamer	Timber
board Deck in feet	25.327 ✓	
ard in feet	4.142 ✓	
nt (d)	21.185 =	21' 2 1/2" =
el		1 1/2
t		21' 4"

Depth to Freeboard Deck in feet	25.327 ✓	
Summer Freeboard in feet	4.142 ✓	
Moulded Draught (d)	21.185 = 21'2 1/2" (21')	
Addition for Keel		1 1/2
Extreme draught		21'-4"
Deduction for Tropical and addition for Winter freeboard d/4 =	5.3 ✓	ins.
Addition for Winter North Atlantic (if required)		ins.
Deduction for Tropical Timber Freeboard	d 1/4	ins.
Addition for Winter	d 1/3	ins.
" " N.A. Timber Freeboard (if required)		ins.

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OMIT

1950

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (..... wood)			4'-1 1/2"
TROPICAL FRESH WATER LINE above centre of disc	10 1/2"	Corresponding Freeboard	3'-3"
FRESH WATER LINE	" " "	" "	3'-7 1/2"
TROPICAL LINE	" " "	" "	3'-9"
WINTER LINE below	" " "	" "	4'-5 1/2"
WINTER NORTH ATLANTIC LINE	" " "		

SUMMER TIMBER FREEBOARD recommended amidships from centre of disc to top of deck line						
TROPICAL FRESH WATER Timber line above centre of disc					Corresponding Freeboard	
FRESH WATER	11	12	13	14	15	16
TROPICAL	17	18	19	20	21	22
WINTER	23	24	below	25	26	27
WINTER NORTH ATLANTIC	28	29	30	31	32	33

	Coaming	Plating	Stiffeners	Spacing	End Attachments	No. and size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	38	34	5'2"x3"x38 L	30"	Lugs T+B	2 @ 5'x3'3"	18"	-
R.Q.D.								-
Bridge Aft Bulkhead	4	34	4'2"x3"x32 L	36"	none	2 @ 5'x3'3"	18"	-
" Forward "	4	4	8'3"x4 8A.	30"	Lugs. top + botm	2 @ 4'x2'3"	18"	-
Forecastle Bulkhead						1 @ 5'x3'1"	18"	-
Trunk, Aft								
" Forward								
Exposed Machinery Casings on } Freeboard or R.Q. Decks								
Exposed Machinery Casings on } superstructure decks	4	38	3x2 1/2"x. 26	26	side stiff. blocks at top	4 @ 5'x2'	18'	7'6"
Machinery Casings within Super- } structures not fitted with Cl. 1. } closing appliances			do.			3 @ 5'x2' 1 @ 2'x17"	18" 8"	7'6"
Deckhouses on flush deck ships								

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

Poop Bulkhead
 R.Q.D. "
 Bridge Aft Bulkhead
 " Forward "
 Forecastle Bulkhead
 Exposed Machinery Casings on
 Freeboard or R.Q. decks
 Exposed Machinery Casings on
 superstructure decks
 Machinery Casings within super-
 structures not fitted with Cl. 1.
 Closing Appliances
 Deck houses on Flush Deck ships

PARTICULARS OF FREEING ARRANGEMENTS

	Lenght of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side	Area each side	Rule Area
After Well	84.5	4'-0	3 @ 3'-9" x 18"	17.5	16.9
Forward Well	80.17	4'-0	3 @ 3'-6" x 18"	15.75	16.03
State fore and aft position and height above deck to bottom of port, for each port			After Well	} see sketch; 13' with	
			Forward Well		
State whether freeing ports are fitted with shutters, bars or rails, and give particulars					

Open, 4 vert. rails
Give particulars of freeing port area, etc., on superstructure decks

Bridge 3'-6" bulwark 1 w.p. 2' x 1 1/2" side 6'
1 ash door 20' x 12 1/2" side 11" } P.O.S.

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PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Number and description of Hatchway from forward	UPPER DECK	Bridge Deck	Upper Deck	Bridge Deck	Coal Hatch	Superstructure	Coal Hatch
Dimensions of Hatchway	21'8" x 18'	30'4" x 22'	28'2" x 22'	26' x 18'	15'2" x 18'	15'2" x 18'	8'8" x 4'
Height of steel above deck	30"	As l.	As l.	As l.	As l.	As l.	As l.
Thickness of sides	.44	As l.	As l.	As l.	As l.	As l.	As l.
Thickness of ends	.44	As l.	As l.	As l.	As l.	As l.	As l.
Stiffeners	8" Bl.	8" Bl.	8" Bl.	As l.	As l.	As l.	As l.
Brackets or Stays	1 P.S. 2" dia	2 P.S. 2" dia	2 P.S. 2" dia	As l.	As l.	As l.	As l.
Number	4	5	5	5	2	2	1
Spacing	4'-4"	5'-0"	4'-8"	4'-4"	5'-0"	5'-0"	4'
Scantling and Sketch	Plt 16x36 LS 4x3x44	Plt 19x36 LS 4x3x46	Plt 18x36 LS 4x3x46	Plt 16x36 LS 4x3x44	Plt 12x32 LS 4x3x44	Plt 12x32 LS 4x3x44	Plt 12x32 LS 4x3x44
Bearing Surface and thickness of carriers or sockets	3 1/2" x 3 1/2" blk.	3 1/2" x 3 1/2" blk.	3 1/2" x 3 1/2" blk.	3 1/2" x 3 1/2" blk.	3 1/2" x 3 1/2" blk.	3 1/2" x 3 1/2" blk.	3 1/2" x 3 1/2" blk.
Number	4	5	5	5	2	2	1
Spacing	4'-4"	5'-0"	4'-8"	4'-4"	5'-0"	5'-0"	4'
Scantling and Sketch	Plt 16x36 LS 4x3x44	Plt 19x36 LS 4x3x46	Plt 18x36 LS 4x3x46	Plt 16x36 LS 4x3x44	Plt 12x32 LS 4x3x44	Plt 12x32 LS 4x3x44	Plt 12x32 LS 4x3x44
Bearing Surface and thickness of carriers or sockets	3 1/2" x 3 1/2" blk.	3 1/2" x 3 1/2" blk.	3 1/2" x 3 1/2" blk.	3 1/2" x 3 1/2" blk.	3 1/2" x 3 1/2" blk.	3 1/2" x 3 1/2" blk.	3 1/2" x 3 1/2" blk.
Material	Wood	As l.	As l.	As l.	As l.	As l.	As l.
Thickness	3"	As l.	As l.	As l.	As l.	As l.	As l.
How Fitted	3 and A.	As l.	As l.	As l.	As l.	As l.	As l.
Bearing Surface	3"	As l.	As l.	As l.	As l.	As l.	As l.
Spacing of Cleats	24"	As l.	As l.	As l.	As l.	As l.	As l.
Number of Tarpaulins	3 weather decks, 2 tween decks	As l.	As l.	As l.	As l.	As l.	As l.
Are wood fore and afters steel shod at all bearing surfaces?	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Are battens and wedges efficient and in good condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Are tarpaulins in good condition and in accordance with rule requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Are lashings provided in accordance with rule requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes

[Surveyors are to note that wood fore and afters are to be steel shod at all bearing surfaces.]

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Gangways and Lifelines Each side in forward well.

Gangway, Cargo and Coaling Ports in sides of ship none

SUPPLEMENTARY REQUIREMENTS FOR STEAMER CARRYING TIMBER DECK CARGOES

Do Superstructures and Machinery Casings comply with rules?

Is provision made for protection of steering gear, and is emergency steering gear provided?

Are efficient uprights, sockets and lashings provided according to rules?

State particulars of longitudinal subdivision in double bottom

State particulars of Bulwarks and Rails

Approval date of plans and full particulars of arrangements for stowing and securing timber

The scantlings and protective arrangements being in accordance with the Freeboard rules it is submitted that the freeboard be assigned

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

on the 8th June 1933



Chief Surveyor.

Secretary.

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