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(1932)

Dundee 6th 1634

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LL. 4.C.

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT SURVEY FOR FREEBOARD

Complete

STEAMER, TANKER, SAILER: "BARON STRANRAER" S.S. ~~WITH~~ WITHOUT TIMBER DECK CARGO

Nationality British Builders' Name and No. of Ship Lithgows, Ltd.

Port of Registry Ardrossan Pt. Glasgow. Yard No 832

Official Number 160130 Owners Hogarth Shipping Co., Ltd.

Gross Tonnage 3668 3¹/₂ 31. Less 2 28¹/₂ 29¹/₂ 2/5/47.

Date of Build 10/1929 Port and Date of Survey 10-6-32 Dundee

Particulars of Classification B.S. X Name of Surveyor Robert H. King

Names of Sister Ships Baron Blythwood, "Kingsland" "Pedrinhas"

Type of Superstructures Poop, Bridge, and Forecastle.

Give full particulars of the following:—

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

FIDDLE COVERS HINGED. } on casing 7'6" above Bridge

NO FUNNEL COAMING.

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)

NONE.

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)

FORECASTLE CREW AC. 4-36" 4" PITCH WOOD. FOREWARD WELL NO 1 HOLD TABLE MAST 12'-0" 3 1/2" PITCH

STORE 1-9 1/2" 4" " BRIDGE DECK BUNKER ETC LOBB 32" COAM. 4" 8'-0" " "

STONES 6-8" 4" " POOP 1-3'-0" 4" PITCH TO SPACE BELOW. AFT WELL 4-8'-0" MIN. 3 1/2" P

MUSHROOM 8-30" 6" " 1-10" 6" " " " Wood plugs & canvas covers provided

NO 1 HOLD 2-32" 6" " " " " " "

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

FORECASTLE (F.D.) FP. 11" ✓ FOREWELL NO 1 TANK. 2-3'-0" ✓

BRIDGE DECK 2'-22" NO 3 TANK. ✓ " " 2 " 2-2'-10" ✓

" " 2-30" FW " ✓ AFT WELL NO 4 2-2'-10" ✓

" " " NO 5 2-2'-10" ✓

POOP AFT PEAK 1-10" ✓

gauge fitted

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

4- F.D. IN BRIDGE DECK SPACE TO BELOW F.D. FLAP VALVES BRASS Y CREST IRON CRISTS. Blank flanges fitted at inboard ends

W.L. & ETC. LED ABOVE F.D. WITH VALVES EACH END OF PIPES.

UPPER DECK POOP SPACE EACH SIDE BRASS VALVES & CEMENTED UP.

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

FORECASTLE HINGED DEAD LIGHTS. POOP SPACE 2-8" NO DEAD LIGHTS. wood plugs provided

FRONT BRIDGE DECK SPACE (STEWARD) 2-8" NO DEAD LIGHTS

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

FORECASTLE 3'-6" HIGH 2 RAILS

POOP 3'-6" " 2 RAILS

003474-003478-0116 1/6

COMPUTATION OF FREEBOARD.

Length on summer load line 349.25 Moulded Breadth 50.0 Moulded Depth 25.9 Depth of Keel
 Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth 8481 Tons
 Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times .85} = .7767$ (7.77)
 Displacement and tons per inch immersion in salt water at summer load line 8427 E 35.1
 Moulded depth 25.75 Deduction for Fresh Water $\frac{\Delta}{40T} = 6''$ 6 inches
 Stringer Plate .033 Round of Beam Correction
 Sheathing on exposed deck T $(\frac{L-S}{L})$ - Ships Round of Beam 12.5 inches
 Rise of floor (in sailers) - Standard Round of Beam $\frac{B \times 12}{50} = 12$
 Depth for Freeboard (D) 25.783 Difference .5
 Table Depth 23.283 Restricted to
 Depth Correction $\frac{1}{130} \times 2.5 = 6.716''$ Correction $\frac{\text{Difference}}{4} \times (1 - \frac{E}{L}) = \frac{.5}{4} \times (1 - \frac{.4713}{.5588}) = .0588''$
 If restricted by superstructures

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop	39.97	-	9'	39.97	-	39.97
Raised Quarter Deck		F				
Bridge	106.17	A	9'	106.17	-	106.17
Forecastle <u>42.75 at sides</u>			8'6"	38.72	-	38.54
Trunk Aft						
Forward						
Tonnage Opening Aft						
Forward						
Totals				184.86		184.68

Standard Height of Superstructure 6.9925
 " " R.Q.D.
 Percentage covered S/L = 52.93
 " " E/L = 52.87
 " from Table line A, B, (corrected for absence of forecastle if required) = 38.84%
 Percentage from Table by interpolation for Bridge less than .2L if required =
 Deduction = .3887 $\times 38.6178 = 15.01$
 Percentage from Table for Tankers (or Timber ships) =
 Deduction =

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.	48	44.92	48	1	48
1/2 L from A.P.	21.5	19.99	21.5	4	86
1/2 L from A.P.	5.5	4.94	5.5	2	11
Amidships	0	0	0	4	0
1/2 L from F.P.	12	9.88	12	2	24
1/2 L	48	39.98	48	4	192
F.P.	108	89.85	108	1	108
				18	469

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 $\times (75 - \frac{S}{2L}) = 3.595 \times .4853 = 1.7448''$
 If limited on account of midship superstructure =
 to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft. =

Effective Mean Sheer = 26.055
 Standard " " .05L + S = 22.46
 Difference = 3.595

TABULAR FREEBOARD corrected for flush deck if required = 56.29
 Correction for co-efficient = 56.29 $\times \frac{.4567}{1.36} = 60.3$

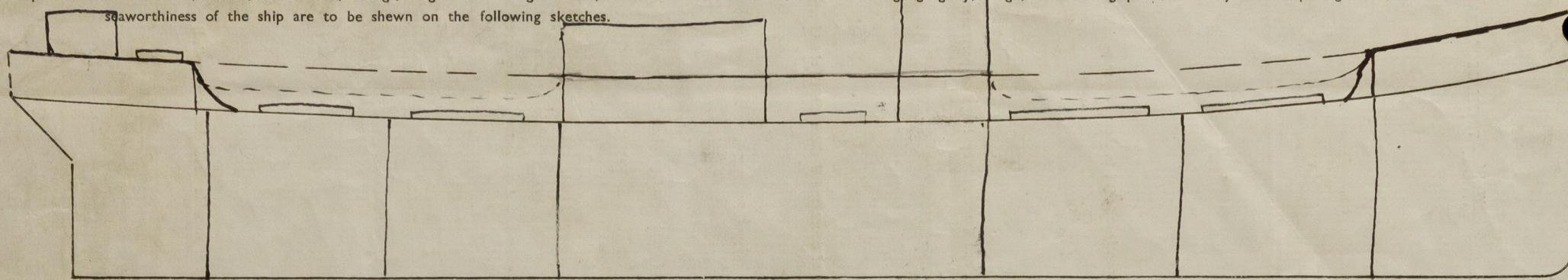
	+	-
Depth correction	<u>6.72</u>	
Deduction for superstructures		<u>15.01</u>
Sheer correction		<u>1.74</u>
Round of Beam correction		<u>.06</u>
Correction for thickness of deck amidships		
Other corrections, scantlings, etc.		
	<u>6.72</u>	<u>16.81</u>
		<u>-10.09</u>

DRAUGHTS AND SEASONAL CORRECTIONS

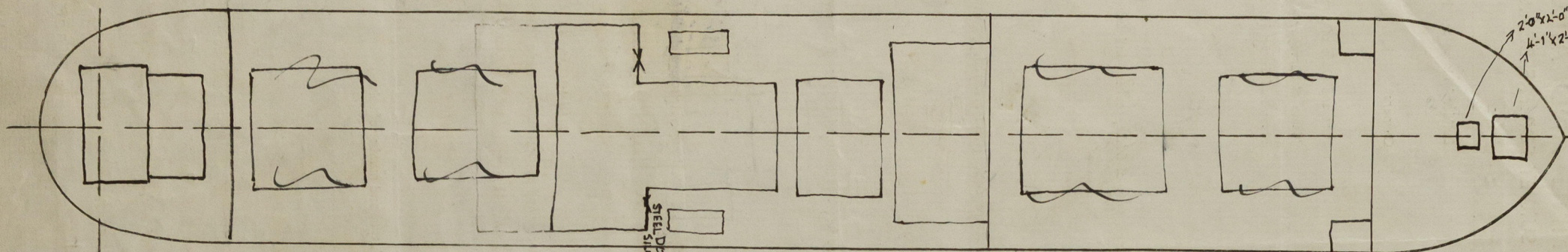
Summer Freeboard in inches = 50.21
 Additional allowance for superstructures on Timber carrying ships =
 Summer Timber Freeboard in inches =
 Depth to Freeboard Deck in feet 25.783
 Summer Freeboard in feet 4.184
 Moulded Draught (d) 21.599 $= 21.7\frac{1}{2}$ 4.2
 Addition for Keel
 Extreme draught
 Deduction for Tropical and addition for Winter freeboard $d/4 = 5.40$ ins. 44.81
 Addition for Winter North Atlantic (if required) = ins.
 Deduction for Tropical Timber Freeboard $\frac{d}{4} = 5.40$ ins.
 Addition for Winter " " $\frac{d}{3} = 7.20$ ins.
 " " N.A. Timber Freeboard (if required) = ins.

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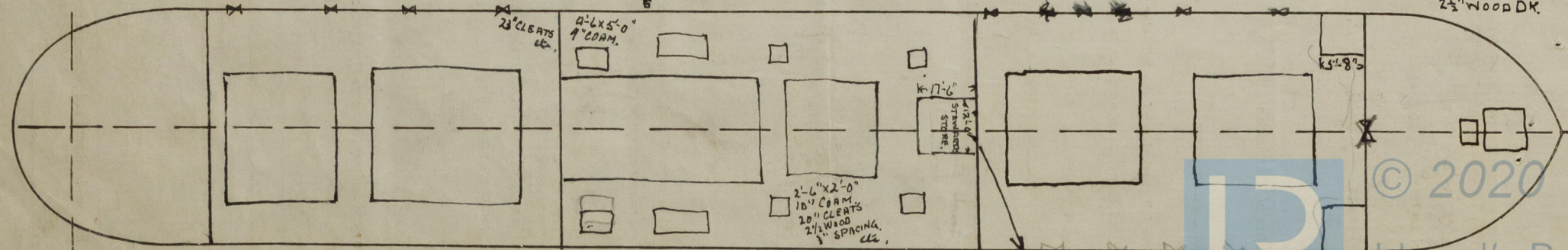
Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatches, extent and thickness of, deck sheathing, gangway, cargo, and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shewn on the following sketches.



Superstructure Deck



Freeboard Deck
2 1/2" WOOD DK.

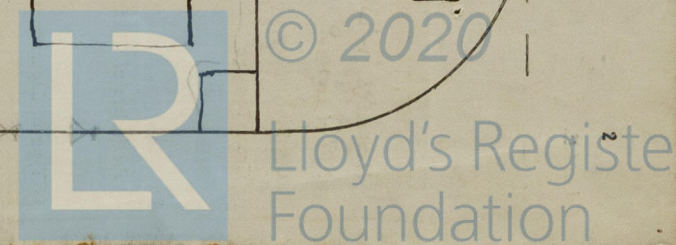


Statement of special features in the construction of the ship

Length	
Mould	
Co-el	
Displ	
Moull	
Strin	
Sheat	
Rise	
Depth	
Table	
Depth	
If res	
Poop	
Raisee	
Bridg	
Foree	
Trum	
Tom	
Total	
S	
A.P.	
L ft	
L ft	
Amic	
L ft	
L ft	
F.P.	
Effect	
Stand	
Correct	
Depth	
Deduct	
Sheer	
Round	
Other	
Sum	
Sum	

216

Checked 10/12/12
Add



aligned

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (..... steel)	4'-2"	-1/2
TROPICAL FRESH WATER LINE above centre of disc 11"	3'-3"	
FRESH WATER LINE " " " 6"	3'-8"	-1/2
TROPICAL LINE " " " 5'	3'-9"	-1/2
WINTER LINE below " " 5'2"	4'-7 1/2"	+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 " " " " "	" "	
TROPICAL " " " " "	" "	
WINTER " " below " " "	" "	
WINTER NORTH ATLANTIC " " " " "	" "	

	Coaming	Plating	Stiffeners	Spacing	End Attachments	No. and size of Openings	Height of Sills	Height of Casings
Poop Bulkhead		35	5 1/2 x 3 x 376	30"	LUGGED T & B.	2 @ 5' x 3'-1"	1'-6"	-
R.Q.D. "								
Bridge Aft Bulkhead		35	4 1/2 x 3 x 376	36"	-	2 @ 5' x 3'-1"	1'-7"	-
" Forward "	42	42	8 x 3 x 468A	30"	lugged top. later	2 @ 5' x 3'-2"	1'-8"	-
Forecastle Bulkhead		26	3 x 3 x 35	36"	-	1 @ 7'-3"	1'-6"	-
Trunk, Aft								
" Forward								
Exposed Machinery Casings on Freeboard or R.Q. Decks								
Exposed Machinery Casings on superstructure decks	36	28	3' x 3" x 26	front 30" side STIFF. sides 36"	BKTS T & B.	2 @ 5' x 2'	1'-6"	7-6
Machinery Casings within Superstructures not fitted with Cl. 1. closing appliances	SIDES -	38	3 1/2 x 3 x 26	24		(2-4'-6" x 4'-3"	18"	
	ENDS -	38	3' x 3" x 26	30	SIDES.	(S. 1-2'-5" x 2'-0"	17	
						(P. 1-5'-0" x 2'-0"		
Deckhouses on flush deck ships								

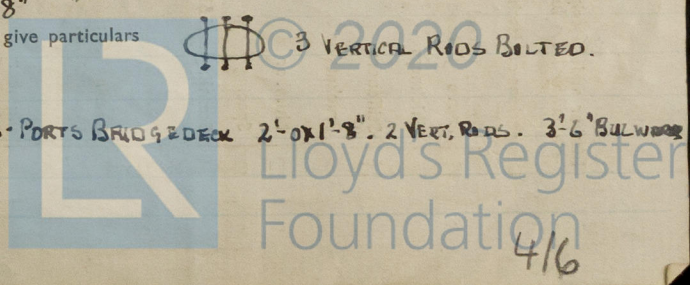
PARTICULARS OF CLOSING APPLIANCES (state if capable of being manipulated from both sides)

Poop Bulkhead	Weather boards full height in channels riveted to bulk ALSO STEEL PLATES HELD BY cleans loose bolts	✓ NO OPENING LETTER 2413147
R.Q.D. "		
Bridge Aft Bulkhead	Weather boards full height in channels riveted to bulk. ✓	
" Forward "	Hinged steel W.T. Doors DOGS 16" PITCH. OPEN FROM OUTSIDE ONLY. ✓	
Forecastle Bulkhead	NO CLOSING ARRANGEMENTS 5 TEAK DOORS 5' x 2' 1 STEEL DOOR ALL HINGED & LOCKS	
Exposed Machinery Casings on Freeboard or R.Q. decks	open passageway doors HINGED WOOD DOOR	WENTHERBOARDS FULL HEIGHT IN CHANNELS WELDED TO BULKHEAD 2413147
Exposed Machinery Casings on superstructure decks	2 STEEL HINGED DOORS. 2 LOCKS STEELWALL; both sides	
Machinery Casings within superstructures not fitted with Cl. 1. Closing Appliances	HINGED STEEL DOORS LOCKS. 5' x 2" TO ER. AFT SIDE CASING. both sides.	
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	86'-8"	4'	4 @ 3'-0" x 1'-6" 1 1/2"	18 sq ft	17.33
Forward Well	73'-8"	4'	4 @ 3'-0" x 1'-6" 1 1/4" + 1/4"	18 sq ft	14.73
State fore and aft position and height above deck to bottom of port, for each port		After Well 6"-8" sills see sketch			
		Forward Well 6"-8" "			
State whether freeing ports are fitted with shutters, bars or rails, and give particulars			3 VERTICAL RODS BOLTED.		

Give particulars of freeing port area, etc., on superstructure decks 2-PORTS BRIDGE DECK 2'-0" x 1'-8". 2 VERT. RODS. 3'-6" BULWARK



464
4481
5561

PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Number and description of Hatchway from forward		1	2	3	4	5	3	BRIDGE & UPPER DECKS 2 BUNKER HATCHES	BOAT DECK. SADDLE DECK.	1	POOP HATCH.	TUNNEL ESCAPE	POOP STORE HATCH
Dimensions of Hatchway		Upper St. 21'-8" x 18'	Upper St. 30'-4" x 22'	Bridge St. 17'-4" x 18'	Upper St. 30'-4" x 18'	Upper St. 26' x 18'	UPPER DR. 17'-0" x 18"	8'-8" x 3'-10 1/2"	6'-6" x 16'-0"		7'-10" x 12'-0"	2'-0" DIA"	2'-5" x 3'-0"
COAMINGS	Height above steel deck	33"	33"	33"	33"	33"	16"	30" & 9"	10"	18	17"	24"	
	Thickness { sides ends	44"	44"	44"	44"	44"	44"	38"	38"	38"	PATENT STEEL	38"	
	Stiffeners	7-3-4 BA side off end	8-3-4 BA side Fore end	7-3-4 BA side	8-3-4 BA side off end	7-3-4 BA side Fore end	-	-	-	-	WT. COVER HINGED.	-	
	Brackets or Stays	2 STAYS	2 STAYS	1 STAY	2 STAYS	2 STAYS	-	-	-	-	-	-	
HATCH BEAMS	Number	4-	5-	3-	5	4	3			4	-	-	
	Spacing	4'-4"	5'-1" x 5'-1"	4'-4"	5'-1" x 5'-1"	5'-3" x 5'-2"	4'-3"	-	-	3'-11"	-	-	
	Scantling and Sketch							-	-	3x3x38 8" BA.	-	-	
	Bearing Surface and thickness of carriers or sockets	3" x .5	3" x .5	3" x .5	3" x .5	3" x .5	3" x .5	3"	-	-	-	-	
FORE AND AFTERS	Number	none											
	Spacing												
	Unsupported lengths												
	Scantling and Sketch												
HATCH COVERS	Bearing Surface and thickness of carriers or sockets												
	Material	WOOD	WOOD	WOOD	WOOD	WOOD	WOOD.	WOOD.	WOOD	WOOD	-	WOOD.	
	Thickness	3"	3"	3"	3"	3"	2 1/2"	3"	3	3	-	2 1/2	
	How Fitted	F & A	F & A	F & A	F & A	F & A	F & A.	F & A.	F & A.	F & A.	-	F & A.	
	Bearing Surface	3"	3"	3"	3"	3"	3"	2 1/2"	2 1/2"	2 1/2"	-	2 1/2"	
Spacing of Cleats		22"	22"	22"	22"	22"	24"	ENDS 35" SIDES 22"	24"	24"	-	24"	
Number of Tarpaulins		3"	3	3	3	3	2.	2	2.	2?	-	2	

Are wood fore and afters steel shod at all bearing surfaces?

Are battens and wedges efficient and in good condition? YES

Are tarpaulins in good condition and in accordance with rule requirements YES

Are lashings provided in accordance with rule requirements? YES RING BOLTS.

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

Gangways and Lifelines

*Each side in forward hull
Tunnel escape aft for access to Steering Gear*

Gangway, Cargo and Coaling Ports in sides of ship

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

[Signature]
Chief Surveyor.

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

on the *22nd June 1932*

[Signature]
Secretary.