

LL. 4.C.

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

933

“*now Emp Lisk*” SURVEY FOR FREEBOARD

STEAMER, ~~TANKER~~ SAILED *MARKLYN* SS (*ex WAR COMBE*) ~~WITH~~ WITHOUT TIMBER DECK CARGO

Nationality *British* Builders' Name and No. of Ship *Jayne Iron S. B. Co. Ltd*

Port of Registry *Newport* Owners *Mervyn Steam Shipping Co. Ltd*

Official Number *142682* Port and Date of Survey *Middlesbrough*

Gross Tonnage *3090* Name of Surveyor *John Aitken*

Date of Build *10/1918* Names of Sister Ships

Particulars of Classification *B.S.*

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)

Funnel on top of steel casing 48" high ab. bridge dk. Steel fiddle covers perm. attached forward fiddle opening on top of casing 7-3 high steel covers perm. attached

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)

~~*Saloon House Steel door fore and passage 4'9" x 24" 18" sill Port side manipulated both sides, St side permanently closed Cabin door on passage 4'9" x 24" 18" sill steel hatch door, manipulated both sides. Two cabins aft and casing solid bulk doors 4'7" x 25" 19" sill manipulated 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 16" h'd Vents 36" Coam rivets 3 3/8"
Poop 4 @ 9" with 11" Coam (above wood) 8 bolts fixing to wood dk, 2 @ 6" Coam 8 bolts fixing to dk
Bridge 2 16" Vents 30" Coam 3 3/8" Riv Sp. 3 Small Vents 24" Coam. 3 3/8" Rivets
Wells 16" Vents 30" Coam 3 3/8" Riv Sp. 8" h'd Vents 30"
all wood plugs rainwater covers

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

2" S.N on fore funnel 18" high to throat 4 3/4 bolts
2" S.N air pipe in fore + aft wells 18" to throat 4 3/4 bolts
1 S.N on poop 9" to throat
Canvas covers for closing and wood plugs supplied for those in wells

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

Well deck, collinson type + other thro shell down dk
Bridge deck scuppers collinson type, Under Bridge deck collinson type one valve, inboard into closet with plate + bridge. Sanitary discharges from Bridge accommodation closed valve on shell about 24" above upper dk. 3 bath discharges thro shell no valves about 24" above upper dk - iron pipes.

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

Side scuttles thro poop shell of poop front have deadlights fitted permanent
" " Bridge " have permanent deadlights fitted
" " Fore " " " " " "

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

Guard rails on Poop 39" high two posts
" " Bridge 39" " three posts

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COMPUTATION OF FREEBOARD.

Length on summer load line **331** ✓ Moulded Breadth **46'-6"** ✓ Moulded Depth **25'-6"** ✓ Depth of Keel
 Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth **7246** Tons
 Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times 85} = .76$ ✓
 Displacement and tons per inch immersion in salt water at summer load line *not available*
 Moulded depth **25.500** × Deduction for Fresh Water $\frac{\Delta \times d}{40T} = 5\frac{1}{2}$ inches
 Stringer Plate **46"** × .038 ✓ Round of Beam Correction
 Sheathing on exposed deck T $\left(\frac{L-S}{L}\right)$ Ships Round of Beam **11.50** inches
 Rise of floor (in sailers) **25.538** ✓ Standard Round of Beam $\frac{B \times 12}{50} = 11.16$ ✓
 Depth for Freeboard (D) $\frac{1}{15}$ **22.067** ✓ Difference **.34** ✓
 Table Depth $\frac{331}{130} \times 3.471 = 8.837$ ✓ Restricted to Correction $\frac{\text{Difference}}{4} \times \left(1 - \frac{E}{L}\right) = .085 \times .512 = .043$ ✓
 Depth Correction **51.36 = 0.436** ✓
 If restricted by superstructures

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)	
Poop	32.92		7'-6"	32.92		32.92	Standard Height of Superstructure 6.81 ✓
Raised Quarter Deck							" " R.Q.D.
Bridge	98.00	F 2'-0" A	7'-6"	100.0		99.96	Percentage covered S/L = 488 ✓
Forecastle	28.58		7'-6"	28.58		28.58	" " E/L = 487.5 + 8.64
Trunk Aft							" from Table line A, B, (corrected for absence of forecastle if required) 34.96 ✓
" Forward							34.84
Tonnage Opening Aft							Percentage from Table by interpolation for Bridge less than .2L if required =
" " Forward							Deduction = 37.4 × .3496 = 13.075 off
Totals				161.5		161.4	Percentage from Table for Tankers (or Timber ships) = 68.48
							Deduction = 37.4 × .6848 = 25.612 ✓

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product	Mean Actual shear aft	Standard " "
A.P.	51	43.1	51	1	51	= $\frac{16.5}{14.36}$ over 1 ✓	= $\frac{33.28}{28.72}$ over 1 ✓
½ L from A.P.	22	19.18	22	4	88		
½ L from A.P.	5	4.74	5	2	10		
Amidships	0	0	0	4	0		
½ L from F.P.	11.25	9.48	11.25	2	22.5	Length of enclosed superstructure forward of admidships = exceeds .1L	
½ L	43.5	38.36	43.5	4	174	Length of enclosed superstructure aft of amidships = exceeds .1L	
F.P.	102	86.2	102	1	102		
				18	427.5		
Effective Mean Sheer					24.86		
Standard " "					21.55		
Difference					3.31		

Sheer Correction = Difference X $\left(75 - \frac{S}{2L}\right) = 3.31 \times .506 = 1.675$ ✓

If limited on account of midship superstructure =

" to maximum allowance of 1½ ins. per 100 ft. =

TABULAR FREEBOARD corrected for flush deck if required = **51.27** ✓
 Correction for co-efficient $\frac{1.44}{1.36} = 1.059$ = **54.29** ✓

	+	-	Sailer, Tanker, Steamer	Timber
Depth correction	8.84			
Deduction for superstructures		13.075	25.538	25.538
Sheer correction		1.675	4.028	3.9
Round of Beam correction		.043		
Correction for thickness of deck amidships			21.510	22.555
Other corrections, scantlings, etc.			21.496	22.538 (d1.)
Summer Freeboard in inches	8.84	14.793	48.39	48.337
Additional allowance for superstructures on Timber carrying ships			12.55	12.537
Summer Timber Freeboard in inches			35.860	35.84

DRAUGHTS AND SEASONAL CORRECTIONS

Extreme draught **5.90** ✓
 Deduction for Tropical and addition for Winter freeboard $d/4 = 5.38$ ins.
 Addition for Winter North Atlantic (if required) **.52** ins.
 Deduction for Tropical Timber Freeboard $d/4 = 5.6375$ **5.639** ins.
 Addition for Winter " " $d/3 = 7.518$ **7.518** ins.
 " " N.A. Timber Freeboard (if required) ins.

assigned 10-5-34
R.H.

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (wood .46 steel)								
TROPICAL FRESH WATER LINE above centre of disc	10 1/2"							3'-11 3/4"
FRESH WATER LINE	6"							3'-1 1/4"
TROPICAL LINE	4 1/2"							3'-5 3/4"
WINTER LINE below	4"							3'-7 1/4"
WINTER NORTH ATLANTIC LINE	-							4'-3 3/4"
SUMMER TIMBER FREEBOARD recommended amidships from centre of disc to top of deck line								
TROPICAL FRESH WATER Timber line above centre of disc	11 1/2"							3'-0"
FRESH WATER	6"							2'-0 1/2"
TROPICAL	6"							2'-6"
WINTER	7 1/2"							2'-6 1/2"
WINTER NORTH ATLANTIC	15 3/4"							3'-7 1/2"

3'-11 3/4"
3'-1 1/4"
3'-5 3/4"
3'-7 1/4"
4'-3 3/4"

(11 3/4")

3'-0"
2'-0 1/2"
2'-6"
2'-6 1/2"
3'-7 1/2"
4'-3 3/4"

	Coaming	Plating	Stiffeners	Spacing	End Attachments	No. and size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	19" x 3/8"	.32	6 x 3 1/2 x 34L	30	none	2 doors 4'-9" x 2'-4" 1 door cu. 5'-0" x 2'-7"	19"	-
R.Q.D. "						2 opening 2 doors 5'-9" x 3'-6"	18	-
Bridge Aft Bulkhead	flat out	.30	3 1/2 x 3 x 32L	30 to 36	none	1 door 4'-7" x 2'-5"	18	-
" Forward "	.42	.38	8 x 3 x 5 BA	29 x 30	Bltl TOP + BOTTOM	2 steel doors 4'-9" x 2'-6"	21	-
Forecastle Bulkhead	flat out	.26	3 x 3 x 3	30	none	2 doors 4'-10" x 2'-5" 1 opening 5'-10" x 4"	18	-
Trunk, Aft								-
" Forward								-
Exposed Machinery Casings on Freeboard or R.Q. Decks								-
Exposed Machinery Casings on superstructure decks		.3	3 1/2 x 3 1/2 x 4	33-37	brgd to cas beams at top	2 doors 4'-6" x 2'-2" 2 - Galley "	18	4'-0" at Bls 7'-0" at top
Machinery Casings within Superstructures not fitted with Cl. 1. closing appliances	18" x 35"	.33	3 1/2 x 3 1/2 x 4	33-37	brgd to casing beams at top	2 doors 4'-8" x 2'	18	7'-6"
Deckhouses on flush deck ships								

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

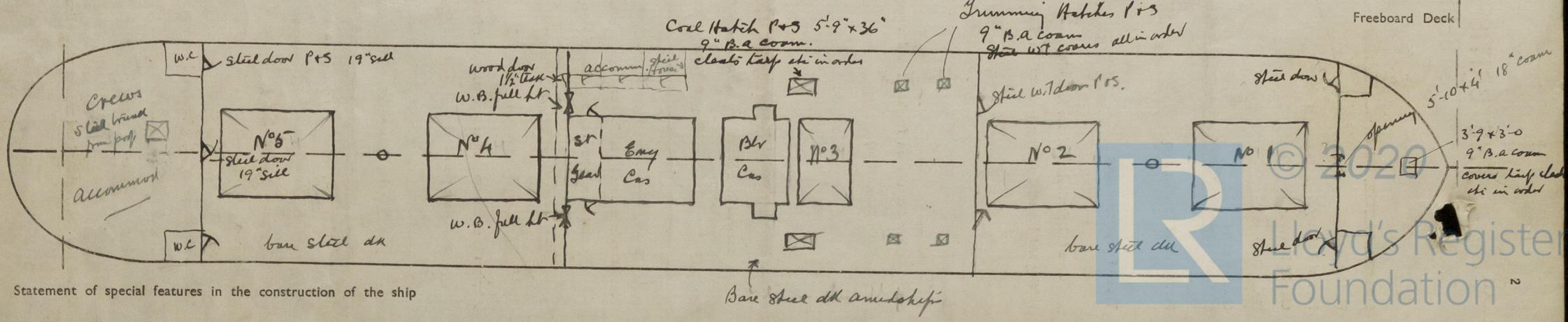
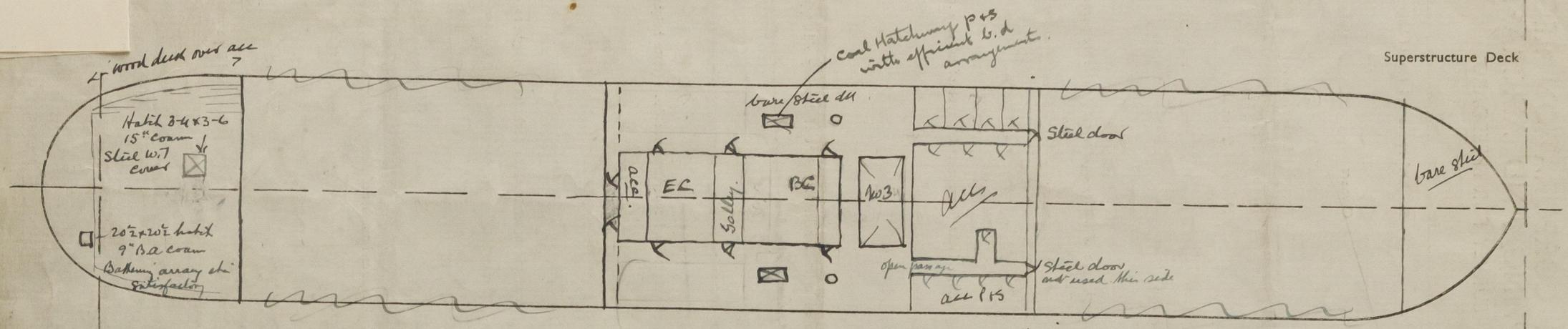
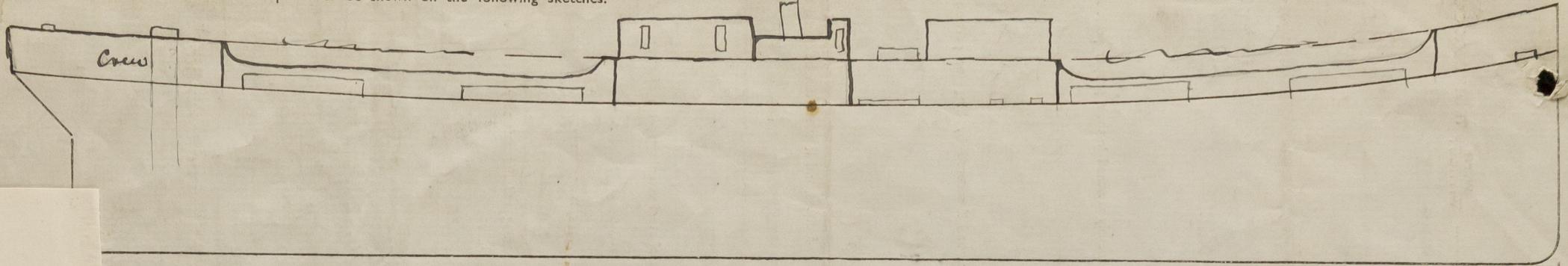
Poop Bulkhead	Hinged STEEL doors, operated both sides
R.Q.D. "	Weather boards full height in channels riveted to bulk.
Bridge Aft Bulkhead	PORTABLE STEEL PLATE SECURED BY HOOK BOLTS.
" Forward "	Hinged W.T. Iron doors, operated from outside
Forecastle Bulkhead	2 iron doors operated both sides to paint-chamber room, channels full at 1 opening - riveted.
Exposed Machinery Casings on Freeboard or R.Q. decks	
Exposed Machinery Casings on superstructure decks	steel doors manipulated both sides
Machinery Casings within superstructures not fitted with Cl. 1. Closing Appliances	2 steel door " " "
Deck houses on Flush Deck ships	

PARTICULARS OF FREEING ARRANGEMENTS

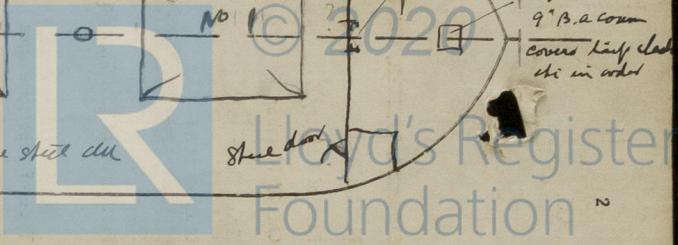
	Length of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side	Area each side	Rule Area
After Well	83-75"	3'-9"	4 @ 3' x 1'-5 1/2"	17.5 sq ft	16.75 sq ft
Forward Well	85-75"	3'-9"	4 @ 3' x 1'-5 1/2"	17.5 sq ft	17.15 sq ft
State fore and aft position and height above deck to bottom of port, for each port			After Well 8'-3", 26'-6", 47'-6" + 64'-0" from edge of W.P. to Bridge Bulk Forward Well 11'-8", 33'-8", 50'-6" + 69'-0" after edge of W.P. to Bridge Bulk		
State whether freeing ports are fitted with shutters, bars or rails, and give particulars					
Give particulars of freeing port area, etc., on superstructure decks			all fitted with 2 horizontal rods, no shutters, open rails		



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 shown on the following sketches.



Statement of special features in the construction of the ship

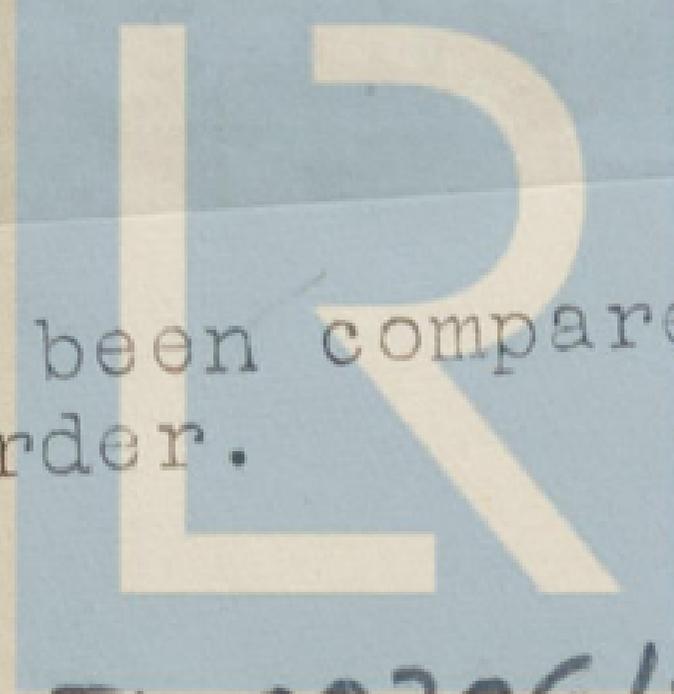


The Freeboard Report has been compared with the approved plans and found in order.

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word deck over acc
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Coal Hatchway pass
into efficient b.d
arrangement



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20 Aug 2020

PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Number and description of Hatchway from forward	1 Upper D.	2 Upper D.	3 Bridge D.	4 Upper D.	5 Upper D.	No. 3 Upper Deck
Dimensions of Hatchway	26-6" x 18'	26-6" x 18'	10-2 1/2" x 18'	26-6" x 18'	26-6" x 18'	12-3" x 18'
COAMINGS	Height } steel above } deck	30"	34"	30"	30"	9"
	Thickness } sides } ends	.44 ✓	.44 ✓	.44 ✓	.44 ✓	9 x 3 1/2 x 1/2 B.A.
	Stiffeners	Both sides & ends 7 x 3 x 4 B.A.	as No 1	7 x 3 x 4 B.A. sides only.	as 1	as 1
	Brackets or Stays	2 @ 2 1/2 dia inside	as No 1	no stays	as 1	as 1
HATCH BEAMS	Number	5	5	1	5	5
	Spacing	4-5"	4-5"	5-1 1/4"	4-5"	4-5"
	Scantling and Sketch		as No 1		as No 1 ✓	as No 1
	Bearing Surface and thickness of carriers or sockets	3 1/2" x 3 1/2" x 5"	3 1/2" x 3 1/2" x 5"	3 1/2" x 3 1/2" x 5"	3 1/2" x 3 1/2" x 5"	3 1/2" x 3 1/2" x 5"
FORE AND AFTERS	Number					
	Spacing					
	Unsupported lengths					
	Scantling and Sketch	None				
Bearing Surface and thickness of carriers or sockets	None					
HATCH COVERS	Material	W.P.	W.P.	W.P.	W.P.	W.P.
	Thickness	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
	How Fitted	F+A	F+A	F+A	F+A	F+A
	Bearing Surface	3 x 3 x 36	as No 1	as No 1	as 1	as 1
	Spacing of Cleats	23"	as No 1	as No 1	as 1	as No 1.
Number of Tarpaulins	3					

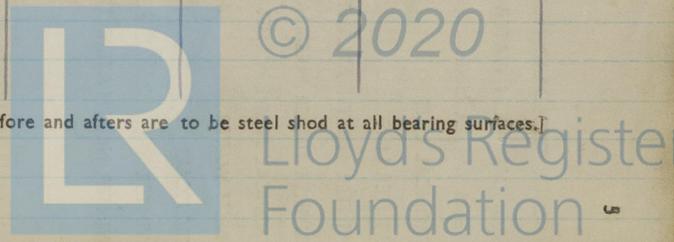
Are wood fore and afters steel shod at all bearing surfaces?

[Surveyors are to note that wood fore and afters are to be 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



P.N.
Must of the Fair Song of the Island of O. B.G.
Sunday Pur... } To the charter of the ship
J.H. Payne R. Smith.
The P. No.

Gangways and Lifelines
Ports, Brigs and Bulkheads
~~at poop + ladder + bridge~~ + brused to rigging to keep level
crew berthed in poop. hemp lifelines fitted between ~~ladder~~ eyebolt on

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

not req'd

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

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Chief Surveyor.

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

on the 23rd May 1934.

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