

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT SURVEY FOR FREEBOARD

STEAMER, TANKER, SAILED: S.M. "CHANT 59" HELNY. WITHOUT TIMBER DECK CARGO

Nationality BRITISH Builders' Name and No. of Ship FURNESS S.B. CO LTD

Port of Registry MIDDLESBROUGH HAVERTON HILL-ON-TEES N° 372.

Official Number 169135 Owners REDEARIE & CO. LONDON MINISTRY OF WAR TRANSPORT

Gross Tonnage 401 (MERS) COASTAL TANKERS LTD LONDON

Date of Build APRIL 1944 Port and Date of survey MIDDLESBROUGH DURING CONSTRUCTION

Particulars of Classification B.S.M. { BASIC OIL CARRIER } { COASTING SERVICE } Name of Surveyor JOHN AITKEN

Type of Superstructures POOP AND FORECASTLE Names of Sister Ships CHANT 52, 53, 54, 55, 56 etc

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	5'	Corresponding Freeboard	1'-0"
FRESH WATER LINE " " "	2½'	" "	0'-7"
TROPICAL LINE " " "	2½'	" "	0'-9½"
WINTER LINE below " "	2½'	" "	0'-9½"
WINTER NORTH ATLANTIC LINE " " "	4½'	" "	1'-2½"
			1'-4½"

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 17-4-49

DATE OF EXPIRY 16-4-49

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 3RD MAY, 1944

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Secretary

003895-003905-0044 18

COMPUTATION OF FREEBOARD

Length on summer load line 140'-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 723 Tons

Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times 85} = .711$

Displacement and tons per inch immersion in salt water at summer load line 789 @ 8.04 T.P.I.

Moulded depth 11.000

Deduction for Fresh Water $\frac{\Delta}{40T} = .2\frac{1}{2}$ 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 7/15 9.400

Restricted to

Depth Correction 7/130 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		14.82
Trunk Aft	21'-9"		7'-0"		18/27	14.50
" Forward	41'-2"		3'-4"		18 x 3.33 27 x 6	15.25
Tonnage Opening Aft	18'-10"		3'-4"		14.71 x 3.33 27 x 6	5.70
" " Forward						
Totals			14.50 27.44 10.26 52.20	56.89 52.20 S. 109.09		91.53

Standard Height of Superstructure 6'-0"

" " R.Q.D.

Percentage covered S/L = 40.34%

" " E/L = 64.93%

" from Table line A, B, (corrected for absence of forecastle if required) -

Percentage from Table by interpolation for Bridge

less than .2L if required = -

Deduction = 57.423%

Percentage from Table for Tankers (or Timber ships) =

Deduction = 20.1 x 57.42 = 11.54 ON

$\frac{S}{L} = 77.38\%$

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	

Mean Actual sheer aft = LESS THAN 1

Mean Actual sheer forward = LESS THAN 1

Length of enclosed superstructure forward of amidships =

Length of Ship

Length of enclosed superstructure aft of amidships =

Length of Ship

Sheer Correction = Difference X $\left(75 - \frac{S}{2L}\right) = 12.05 \times 54.83 = 6.608 ON.$

Effective Mean Sheer =

Standard " " .05L + 5 = 12.05

If limited on account of midship superstructure =

Difference

12.05

" 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 = 139/136 = 14.66 DRAUGHTS AND SEASONAL CORRECTIONS

	+	-
Depth correction	1.77	-
Deduction for superstructures	-	11.54
Sheer correction	6.61	-
Round of Beam correction	.37	-
Correction for thickness of deck amidships	-	-
Other corrections, scantlings, etc.	-	-
	8.75	11.54 - 2.79

Summer Freeboard in Inches 12" = 11.87

Additional allowance for superstructures on

Timber carrying ships =

Summer Timber Freeboard in inches =

	Sailer, Tanker, Steamer	Timber
Depth to Freeboard Deck in feet	11.031	
Summer Freeboard in feet	1.000	
Moulded Draught (d)	10.031	(d1)
Addition for Keel	.042	
Extreme draught 10'-0 7/8"	10.073	

Deduction for Tropical and addition for Winter freeboard d/4 = 2.5 ins.

Addition for Winter North Atlantic (if required) = 4.5 ins.

Deduction for Tropical Timber Freeboard $\frac{d1}{d}$ = - ins.

Addition for Winter " " $\frac{d1}{3}$ = - ins.

" " N.A. Timber Freeboard (if required) = - ins.

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT
SURVEY FOR FREEBOARD
CONDITIONS OF ASSIGNMENT

SHIPS NAME "CHANT 59" OFFICIAL NUMBER 169135
Nationality and Port of Registry BRITISH, MIDDLESBROUGH

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	5x3x5/16	25 1/2	Brkt'd T+B	none		
R.Q.D. "	-							
Bridge Aft Bulkhead	-							
" Forward "	-							
Forecastle Bulkhead	-	5/16	3x3x1/4	30	None. Stiff Laps	2 @	15"	
Trunk, Aft					Top + Btm. L's	4'11" x 1'9"		
" Forward								
Exposed Machinery Casings on Freeboard or R.Q. Decks	-							
Exposed Machinery Casings on superstructure decks	325	25	3x2 1/2x1/4	21"	Attached to U.D beams at lower end	1 @ 5'-0" x 21"	18"	
Machinery Casings within Super-structures not fitted with Cl. 1 closing appliances	-					Steel door		
Deckhouses on flush deck ships	-							

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

Poop Bulkhead	No openings
R.Q.D. "	-
Bridge Aft Bulkhead	-
" Forward "	-
Forecastle Bulkhead	Steel doors. 15" Coaming
Exposed Machinery Casings on Freeboard or R.Q. decks	-
Exposed Machinery Casings on superstructure decks	Steel door fore end. 18" Coaming, Manipulated both sides
Machinery Casings within super-structures 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	Open rails				
Forward Well					

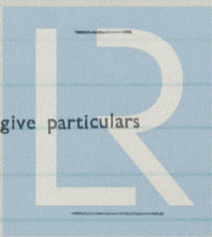
State fore and aft position and height above deck to bottom of port, for each port

After Well

Forward Well

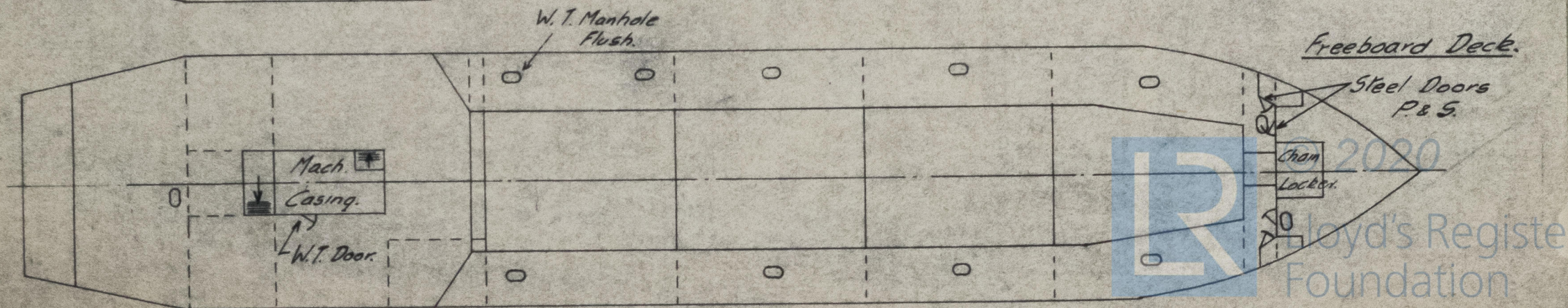
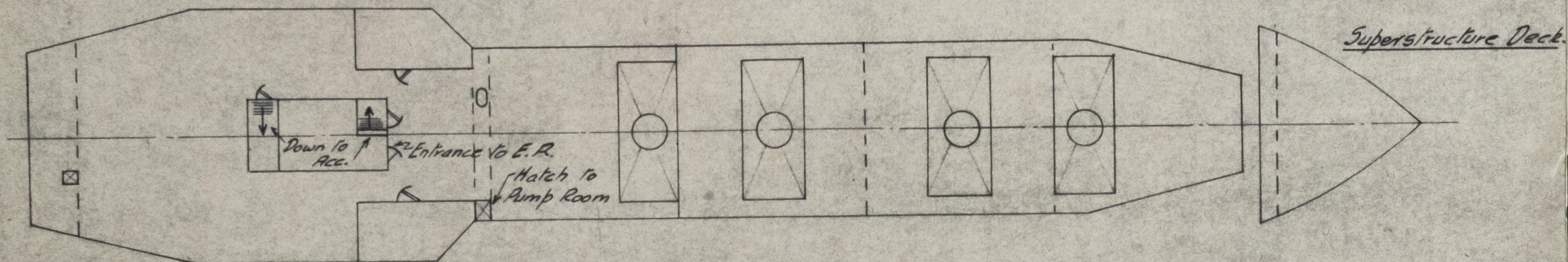
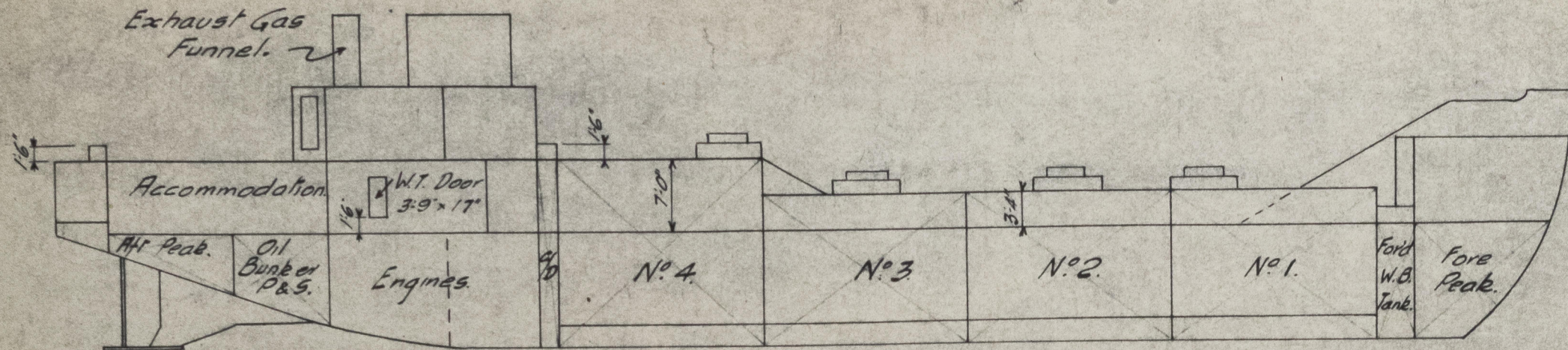
State whether freeing ports are fitted with shutters, bars or rails, and give particulars

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



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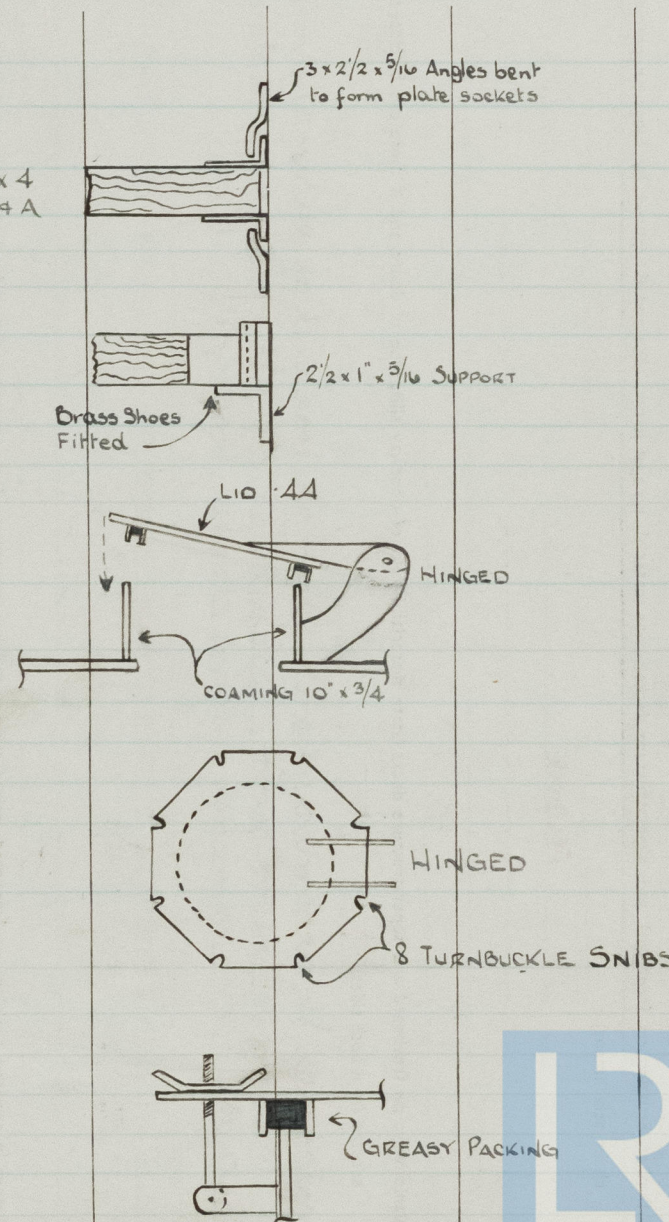


PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

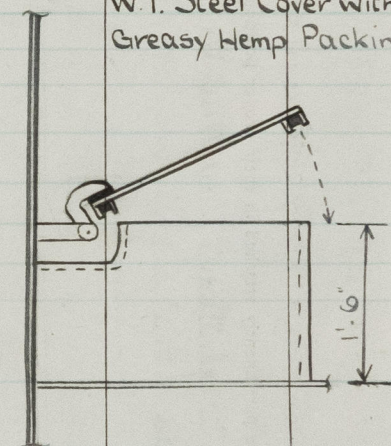
Number and description of Hatchway from forward		No 1.	No 2	No 3	No 4
Dimensions of Hatchway		15'-0" x 6'-8"	15'-0" x 6'-8"	15'-0" x 6'-8"	15'-0" x 6'-8"
COAMINGS	Height above wood ^{Trunk deck} steel	18"	18"	18"	18"
	Thickness { sides ends	5/16" 5/16"	5/16" 5/16"	5/16" 5/16"	5/16" 5/16"
	Stiffeners	—	—	—	—
	Brackets or Stays	—	—	—	—
HATCH BEAMS	Number	—	—	—	—
	Spacing	—	—	—	—
	Scantling and Sketch	—	—	—	—
	Bearing Surface and thickness of carriers or sockets	—	—	—	—
FORE AND AFTERS	Number	2	2	2	2
	Spacing	5'-0"	5'-0"	5'-0"	5'-0"
	Unsupported lengths	6'-6 3/8"	6'-6 3/8"	6'-6 3/8"	6'-6 3/8"
	Scantling and Sketch	7x4 WOOD	7x4 WOOD	7x4 WOOD	7x4 WOOD
HATCH COVERS	Bearing Surface and thickness of carriers or sockets	5/16 Plate Sockets	5/16 Plate Sockets	5/16 Plate Sockets	5/16 Plate Sockets
	Material	Wood	Wood	Wood	Wood
	Thickness	2 3/8	2 3/8	2 3/8	2 3/8
	How Fitted	Th' Ship	Th' Ship	Th' Ship	Th' Ship
Bearing Surface		2'-0"	2'-0"	2'-0"	2'-0"
Spacing of Cleats		2	2	2	2
Number of Tarpaulins		2	2	2	2

1/4" PLATE WITH GREASY HEMP PACKING AND 4" DIA SCUTTLE ON TOP. SEE SKETCH.

ALTERNATIVE COAMING



Hatch to Pump Room
W.T. Steel Cover with Greasy Hemp Packing



Hatch to store in Counter

24x22" Coaming 18"
Wood hatch, Tarps, Cleats, etc
& Locking bar

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

Yes

Are lashings provided in accordance with rule requirements?

Yes

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

Brass shod. Brass Angles

Are battens and wedges efficient and in good condition?

Yes

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)

Engine Room Skylight - , Steel, Steel Flaps, no lights.
no Fiddle openings. Funnel & E.R. Vents on top of 7'0" casing,
above poop deck

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 accommodation: Door at fore end of casing structure
18" beaming, wood door. Also, door at aft end of casing structure
portside, 18" beaming, wood doors. Doors 4'-10" x 22"

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)

Upper deck - Swan neck vents, 39" to throat, 9" dia, fastened with 8 bolts $\frac{3}{4}$ " dia, closed with fine gauze, also wood plug & canvas cover.

Poop deck vents - Swan necks 24' to throat.

Ordinary vents 7" x 12", 30" coaming x $\frac{3}{8}$ Th. welded to deck, wood plugs & canvas covers.

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

Air pipes

Upper Deck 39"
Forecastle 22"
Poop 21"

Wood plugs attached with chain



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

PORT 1-2" GUN METAL SCREW DOWN VALVE. STRAIGHT THROUGH TYPE WITH EXTENDED
SPINDLE TO UPPER DECK

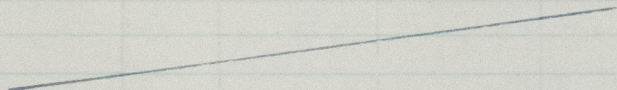
STARBOARD 2-2" " " " " " " " " " "

" 4-4" " " " " " " " " " "

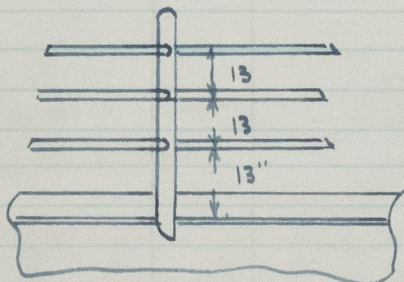
Side Scuttles to spaces below freeboard and superstructure decks (state type or pattern, and if permanent or portable deadlights are supplied)

SIDE SCUTTLES TO ACCOMMODATION IN POOP SPACE. BRASS FRAMES
HINGED M.S. DEADLIGHTS 1/4" PLATE.

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)



FITTED ROUND POOP DECK CLEAR OF SIDEHOUSE
AND ALL ALONG WALL PAS FROM POOP TO FORECASTLE
BULKHEAD ON FORECASTLE.

Gangways and Lifelines

LIFELINE FITTED FROM FORE END OF POOP TO AFT END OF FORECASTLE
FITTED ON STANCHIONS EACH SIDE IN TOP EDGE OF TRUNNION

Gangway, Cargo and Coaling Ports in sides of ship

NONE



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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



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