

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 REDEKIAKIEBOLAGET HAYNIA. MARIEHAMN
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.* { 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
FRESH WATER LINE	" " "	2 1/2'	" "
TROPICAL LINE	" " "	2 1/2'	" "
WINTER LINE	below " "	2 1/2'	" "
WINTER NORTH ATLANTIC LINE	" " "	4 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	" " " "		" "

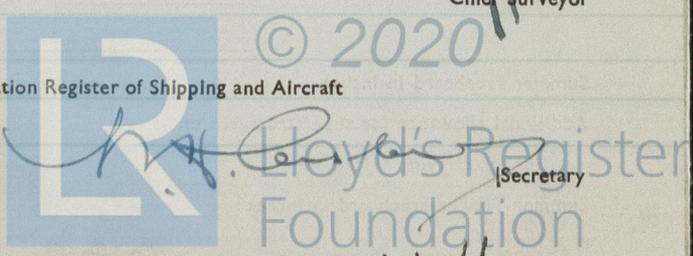
Number of years recommended for load line certificate

DATE OF ISSUE 17-4-49
DATE OF EXPIRES 16-4-49

The scantlings and protective arrangements being in accordance with the Load Line Rules it is submitted that the freeboards 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 3RD MAY, 1944



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	<u>11.000</u>	Deduction for Fresh Water	$\frac{\Delta}{40T} = .22$	inches
Stringer Plate	$\frac{3}{8}$ <u>.031</u>	Round of Beam Correction		
Sheathing on exposed deck T $(\frac{L-S}{L})$	-	Ships Round of Beam	<u>0.00</u>	inches
Rise of floor (in sailers)	-	Standard Round of Beam	$\frac{B \times 12}{50} = \underline{6.48}$	
Depth for Freeboard (D)	<u>11.031</u>	Difference	<u>6.48</u>	
Table Depth	$\frac{7}{15}$ <u>9.400</u>	Restricted to	<u>S.</u>	
Depth Correction	$\frac{7}{130}$ <u>1.631</u>	Correction	$\frac{\text{Difference}}{4} \times (1 - \frac{S}{L}) = 1.62 \times 2262 = \underline{3665 \text{ ON.}}$	

If restricted by superstructures 1769 ON.

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop	<u>37'-6 3/4"</u>	-	<u>7'-0"</u>	<u>41.26</u>	-	<u>41.26</u>
Raised Quarter Deck						
Bridge		F				
		A				
Forecastle	<u>13'-8 1/2"</u>	<u>1'-0"</u>	<u>8'-0"</u>	<u>15.63</u>		<u>14.82</u>
Trunk Aft	<u>21'-9"</u>		<u>7'-0"</u>		$\frac{18}{27}$	<u>14.50</u>
" Forward	<u>41'-2"</u>		<u>3'-4"</u>		$\frac{18 \times 3.33}{27 \times 6}$	<u>15.25</u>
Tonnage Opening Aft	<u>18'-10"</u>		<u>3'-4"</u>		$\frac{14.71 \times 3.33}{27 \times 6}$	<u>5.70</u>
" " Forward						
Totals			<u>14.50</u>	<u>56.89</u>		<u>91.53</u>
			<u>27.44</u>	<u>52.20</u>		
			<u>10.26</u>	<u>52.20</u>		
			<u>52.20</u>	<u>5.109.09</u>	$\frac{S}{L} = 77.38\%$	

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 \times 57.42 = 11.54 ON

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

NO SHEER

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 $\times (75 - \frac{S}{2L}) = 12.05 \times 5483 = \underline{6.608 ON.}$

Effective Mean Sheer =
 Standard " " $.05L + 5$ = 12.05
 Difference = 12.05
 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 = $\frac{139}{136} = 1.022$ 14.66 DRAUGHTS AND SEASONAL CORRECTIONS

	+	-	Sailer, Tanker, Steamer	Timber
Depth correction	<u>1.77</u>	-		
Deduction for superstructures	-	<u>11.54</u>	Depth to Freeboard Deck in feet	<u>11.031</u>
Sheer correction	<u>6.61</u>	-	Summer Freeboard in feet	<u>1.000</u>
Round of Beam correction	<u>.37</u>	-	Moulded Draught (d)	<u>10.031</u>
Correction for thickness of deck amidships	-	-	Addition for Keel	<u>.042</u>
Other corrections, scantlings, etc.	-	-	Extreme draught <u>10'-0 7/8"</u>	<u>10.073</u>
	<u>8.75</u>	<u>11.54</u>		<u>- 2.79</u>

Summer Freeboard in Inches 12" = 11.87
 Additional allowance for superstructures on
 Timber carrying ships =
 Summer Timber Freeboard in inches =
 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.

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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	5x3 x 5/16	25 1/2	Brkt'd T+B	none		
R.Q.D. "	-							
Bridge Aft Bulkhead	-							
" Forward "	-							
Forecastle Bulkhead	-	5/16	3x3 x 1/4	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	3/25	25	3x2 1/2 x 1/4	21"	Attached to U.D beams at lower end	1 @ 5'-0" x 21"	18"	
Machinery Casings within Superstructures 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 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	Open rails				
Forward Well					

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

} After Well —
 } Forward Well —

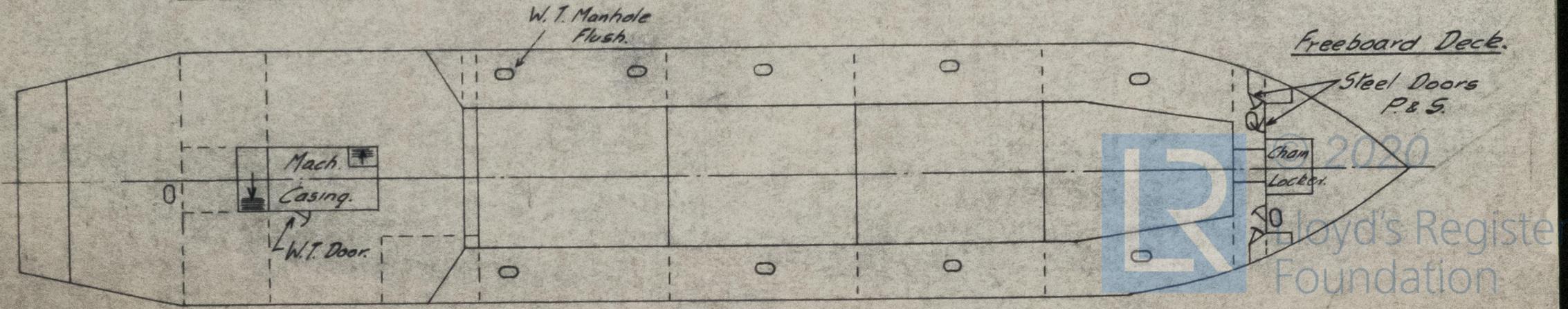
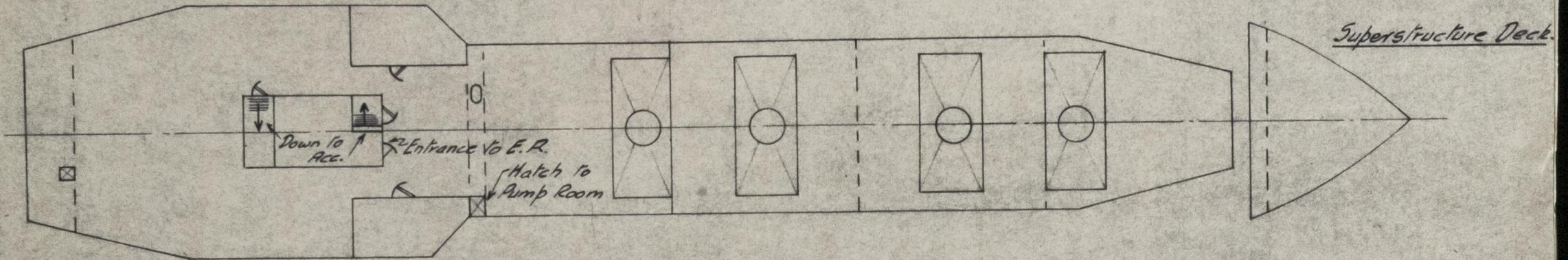
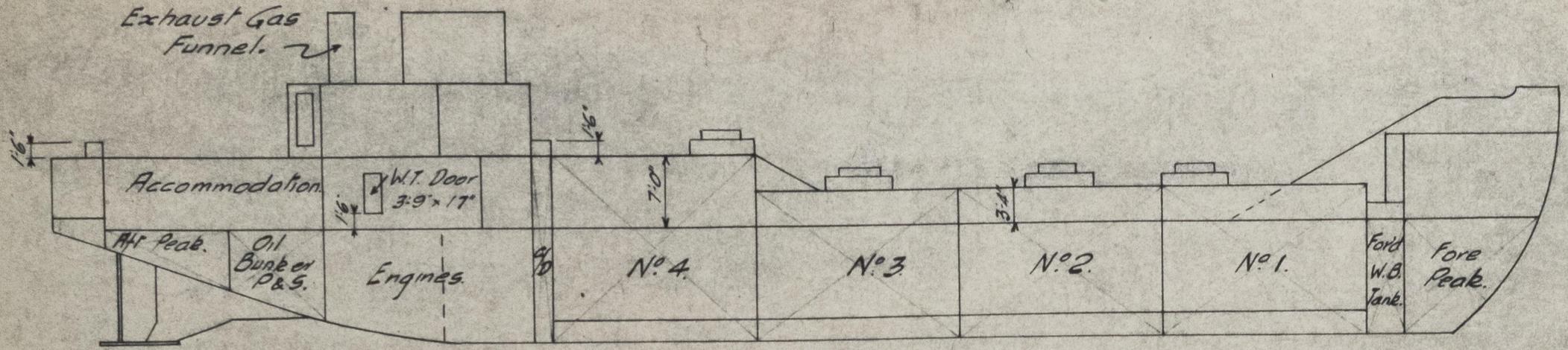
State whether freeing ports are fitted with shutters, bars or rails, and give particulars

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

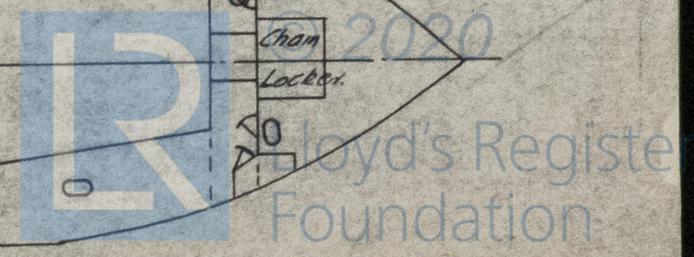


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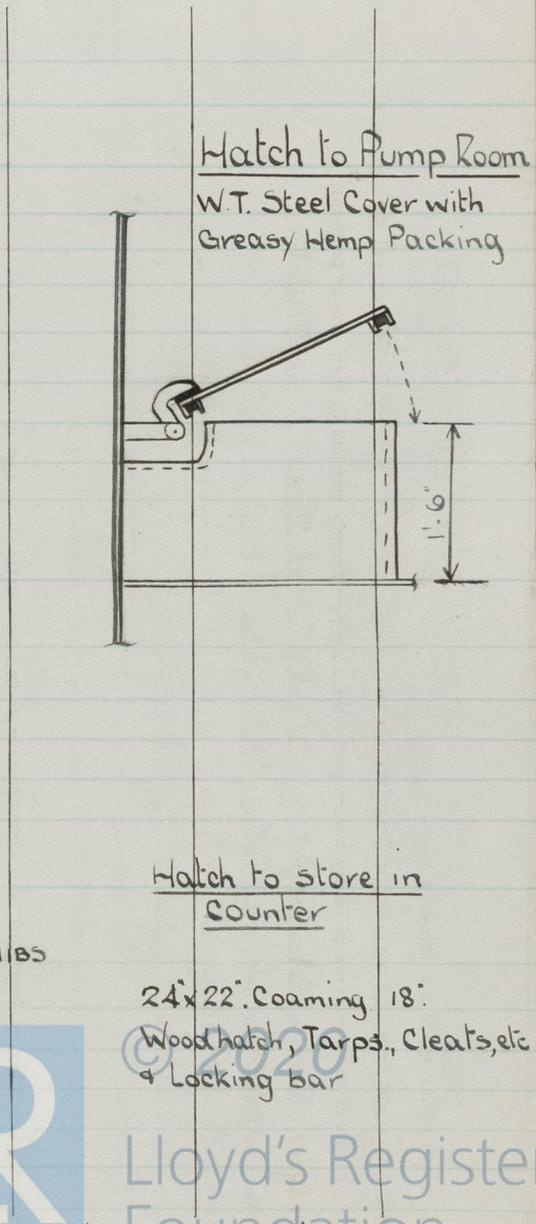
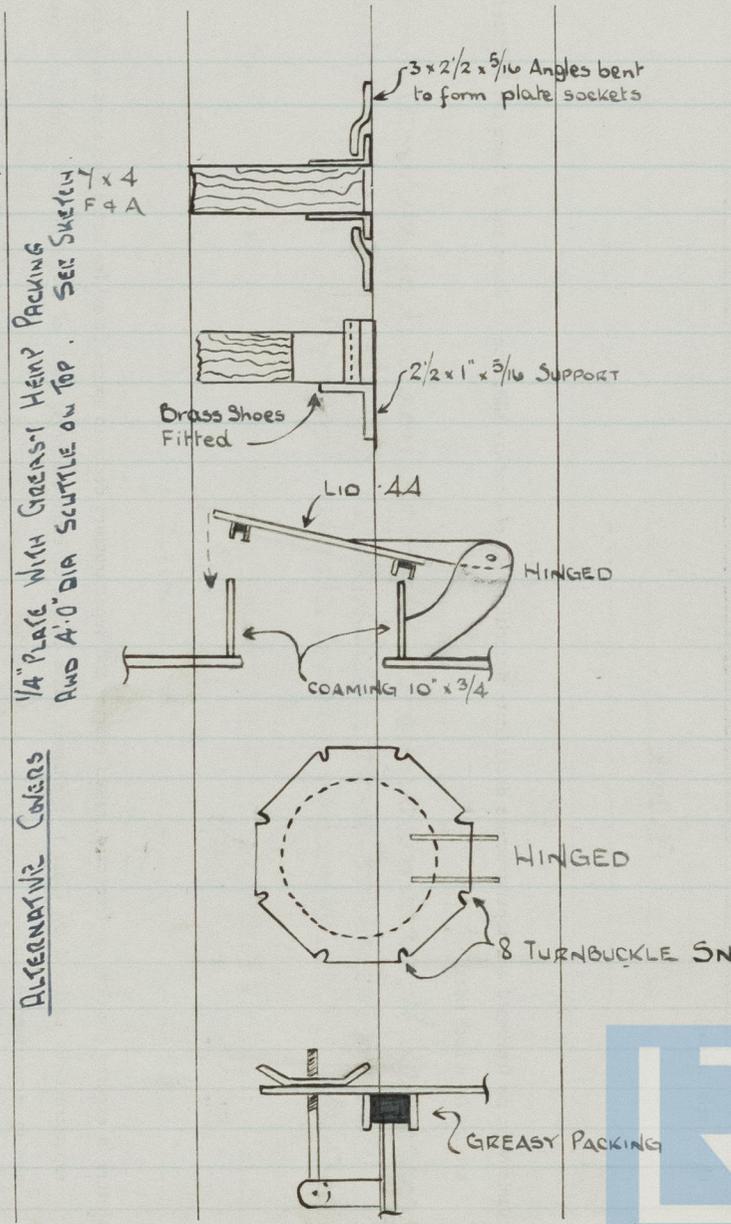


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PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

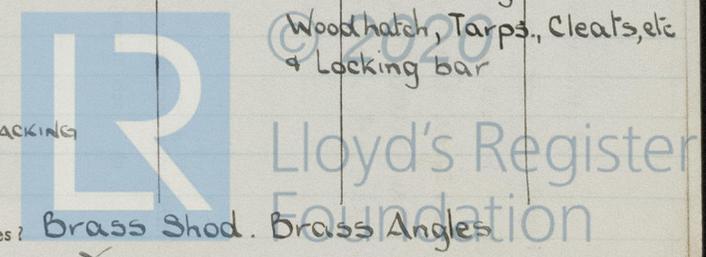
Number and description of Hatchway from forward	No. 1	No. 2	No. 3	No. 4		
Dimensions of Hatchway	15'-0" x 6'-8"	15'-0" x 6'-8"	15'-0" x 6'-8"	15'-0" x 6'-8"		
COAMINGS	Height above steel deck	18"	18"	18"	18"	
	Thickness sides ends	5/16" 5/16"	5/16" 5/16"	5/16" 5/16"	5/16" 5/16"	
HATCH BEAMS	Stiffeners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



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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 Slaps, 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 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 3/8 Th. welded to deck, wood plugs & canvas covers.

Alr pipes 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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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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