

THE BRITISH CORPORATION REGISTER OF  
SHIPPING AND AIRCRAFT

## SURVEY FOR FREEBOARD

STEAMER, TANKER, SAILER: <sup>S.M. EX</sup> "KUSA" CHANT 43

WITHOUT TIMBER DECK CARGO

Nationality BRITISH Builders' Name and No. of Ship FURNESS S.B. Co LTD.  
 Port of Registry MIDDLESBROUGH LONDON. HAVERTON HILL ON LEES. N° 38A.  
 Official Number 169142 Owners SHELL CO. OF STRAITS SETTLEMENTS LONDON  
MINISTRY OF MAR. TRANSPORT.  
Anglo Siam Petroleum Co. LTD. LONDON  
Anglo Siam Petroleum Co. (Eastern) Ltd.  
 Gross Tonnage 400.67. Port and Date of survey MIDDLESBROUGH. DURING CONSTRUCTION  
 Date of Build JUNE 1944. Name of Surveyor JOHN AITKEN.  
 Particulars of Classification B.S.\* { BULK OIL CARRIER } Names of Sister Ships CHANTS 52-59, 62-65, 42-45.  
{ COASTING SERVICE } OWNERS. SHELL COMPANY OF SINGAPORE LTD.  
 Type of Superstructures POOP & FORECASTLE

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	<u>2 1/2"</u>	Corresponding Freeboard	<u>1'-0"</u> <u>0'-9 1/2"</u>
FRESH WATER LINE " " "	<u>2 1/2"</u>	" "	<u>0'-9 1/2"</u>
TROPICAL LINE " " "	<u>0</u>	" "	<u>1'-0"</u>
WINTER LINE below " "	<u>2 1/2"</u>	" "	<u>1'-2 1/2"</u>
WINTER NORTH ATLANTIC LINE " " "	<u>4 1/2"</u>	" "	<u>1'-4 1/2"</u>

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 ISSUED 5-6-44  
 DATE EXPIRY 4-6-49

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 5th July, 1944

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Foundation  
Secretary

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## COMPUTATION OF FREEBOARD

Length on summer load line 141'-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 725 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'-00" Deduction for Fresh Water  $\frac{\Delta}{40T} = 2.453$  inches

Stringer Plate 3/8" 0.31 Round of Beam Correction

Sheathing on exposed deck T (L-S) - 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 4/5 8.400 Restricted to

Depth Correction 4/100 1.631 Correction  $\frac{\text{Difference}}{4} \times \left(1 - \frac{S}{L}\right) = 1.62 \times 0.2267 = 0.3665$  ON.

If restricted by superstructures 1.769 ON.

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop	27'-6"	-	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	31'-9"		7'-0"	12.50		12.50
" Forward	11'-2"		3'-4"	15.25		15.25
Tonnage Opening Aft	18'-0"		3'-4"	5.70		5.70
" " Forward						
Totals	51.50	14.50		56.89		91.55

Standard Height of Superstructure 6'-0"

" " R.Q.D. -

Percentage covered S/L = 10.34%

" " 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) = 30.14

Deduction = 30.14 + 57.42 = 87.56 OFF.

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.				1	
1/2 L from A.P.				4	
1/3 L from A.P.				2	
Amidships				4	
1/3 L from F.P.				2	
1/2 L " "				4	
F.P.				1	
				18	

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  $\times \left(1.75 - \frac{S}{2L}\right) = 12.03 \times 0.5488 = 6.608$  ON.

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 = 11.33

Correction for co-efficient = 13.91/136 = 14.66 DRAUGHTS AND SEASONAL CORRECTIONS

	+	-	Sailor, Tanker, Steamer	Timber
Depth correction	1.77	-		
Deduction for superstructures	-	11.54		
Sheer correction	6.61	-		
Round of Beam correction	0.37	-		
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	=			

X DRAUGHT IN S.W. RESTRICTED.

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Form LL. 4.D.

# THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

## SURVEY FOR FREEBOARD

### CONDITIONS OF ASSIGNMENT

SHIPS NAME "Giant 43" OFFICIAL NUMBER 169142.

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	5 x 3 x 5/16	25 1/2	BRKT. T. & B.	NONE		
R.Q.D. "	-							
Bridge Aft Bulkhead	-							
" Forward "	-							
Forecastle Bulkhead	-	5/16	3 x 3 x 1/4	30	NONE STIFF LAPS	2 @	15"	
Trunk, Aft					TOP & BOTTOM L'S	4-11' x 1'-9"		
" Forward								
Exposed Machinery Casings on Freeboard or R.Q. Decks	-							
Exposed Machinery Casings on superstructure decks	- 33.5	35	3 x 2 1/2 x 1/4	31"	ATTACHED TO U.D.	1 @ 5'-0" x 21"	18"	
Machinery Casings within Superstructures not fitted with Cl. 1 closing appliances	-				BEAMS AT LOWER END	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" coamings.
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					
Forward Well	Open rails				

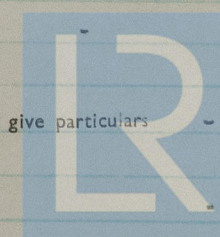
State fore and aft position and height above deck to bottom of port, for each port

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

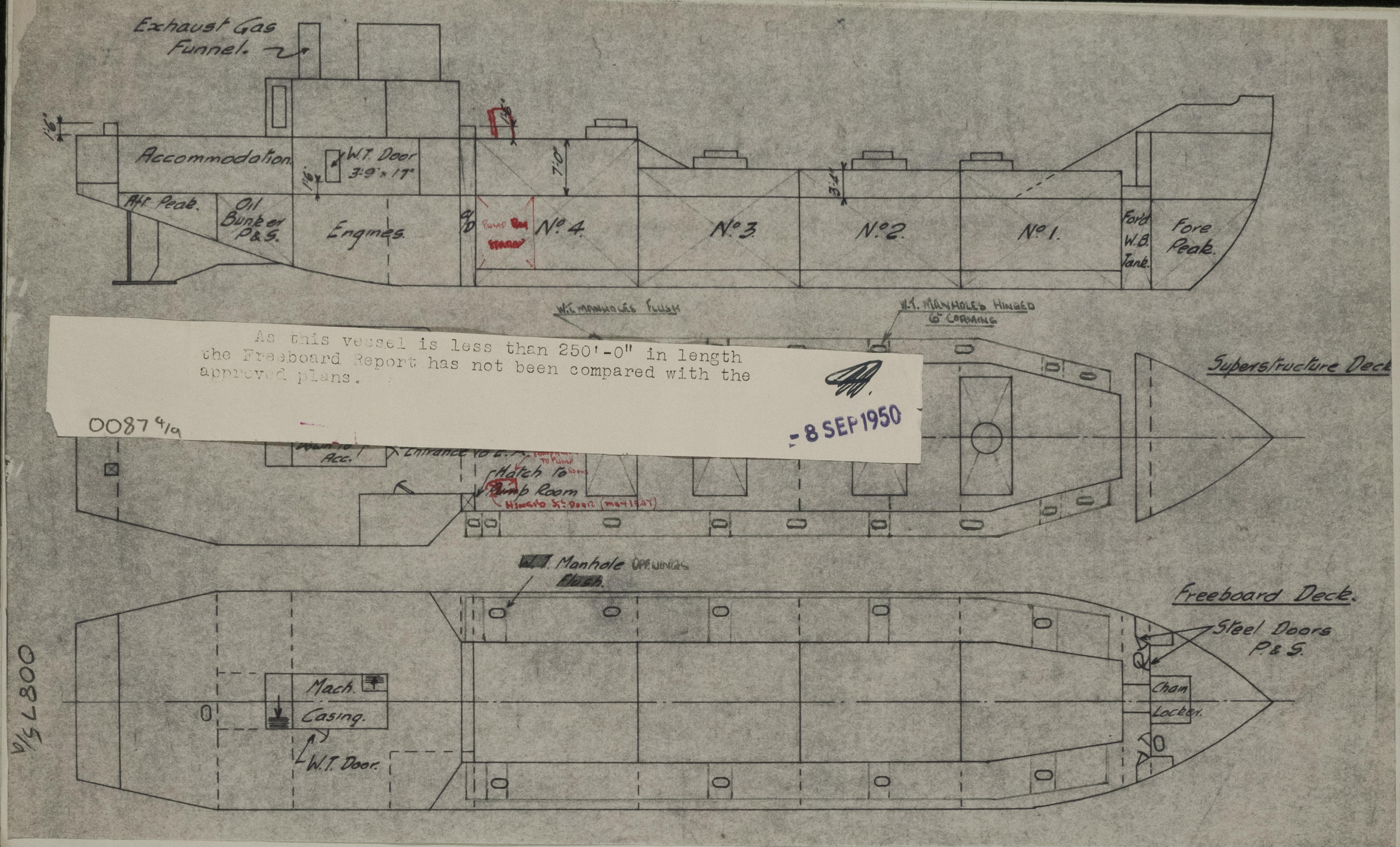


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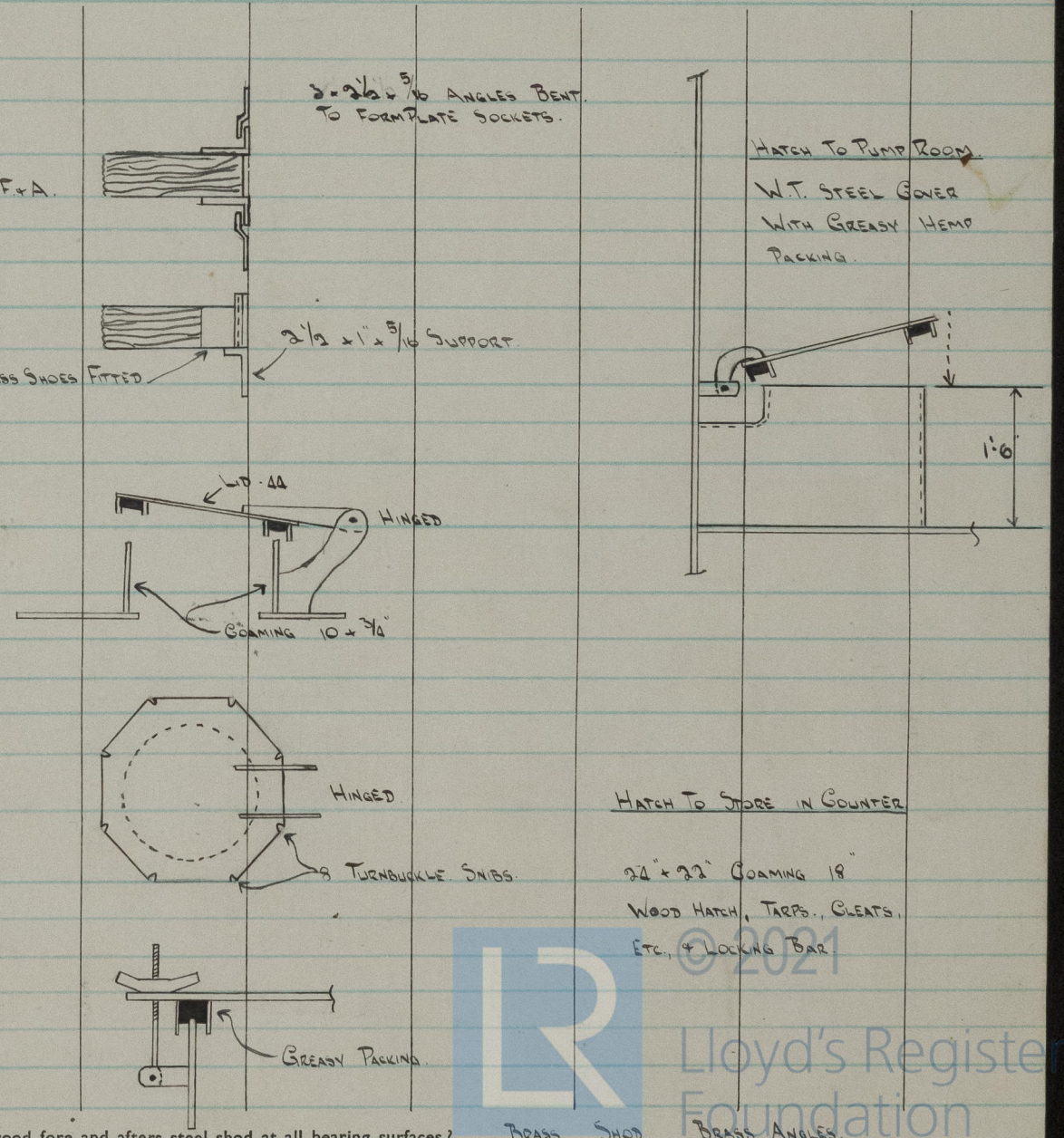




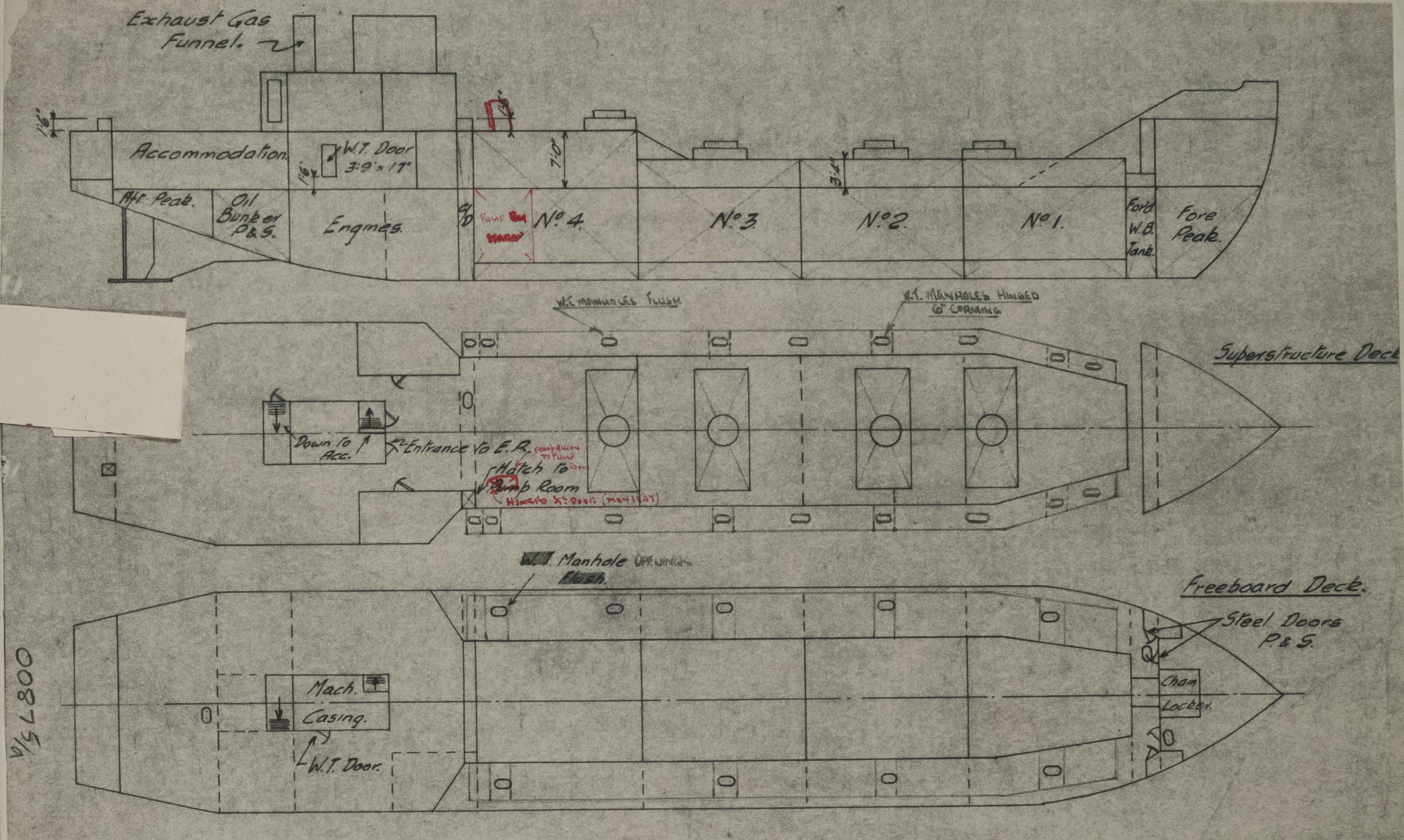
PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

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 deck	18"	18"	18"	18"				
Thickness	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 3/4"				
Scantling and Sketch	7 x 4 WOOD	7 x 4 WOOD	7 x 4 WOOD	7 x 4 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	WOOD	WOOD	WOOD	WOOD				
Thickness	2 3/8"	2 3/8"	2 3/8"	2 3/8"				
How Fitted	TW'SHIP	TW'SHIP	TW'SHIP	TW'SHIP				
Bearing Surface								
Spacing of Cleats	2'-0"	2'-0"	2'-0"	2'-0"				
Number of Tarpaulins	2	2	2	2				
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?								
Are battens and wedges efficient and in good condition?								

ALTERNATIVE COVERS: 1/4" STEEL WITH GREASY HEMP PACKING AND 4" DIA SCUTTLE HATCH ON TOP. SEE SKETCH.



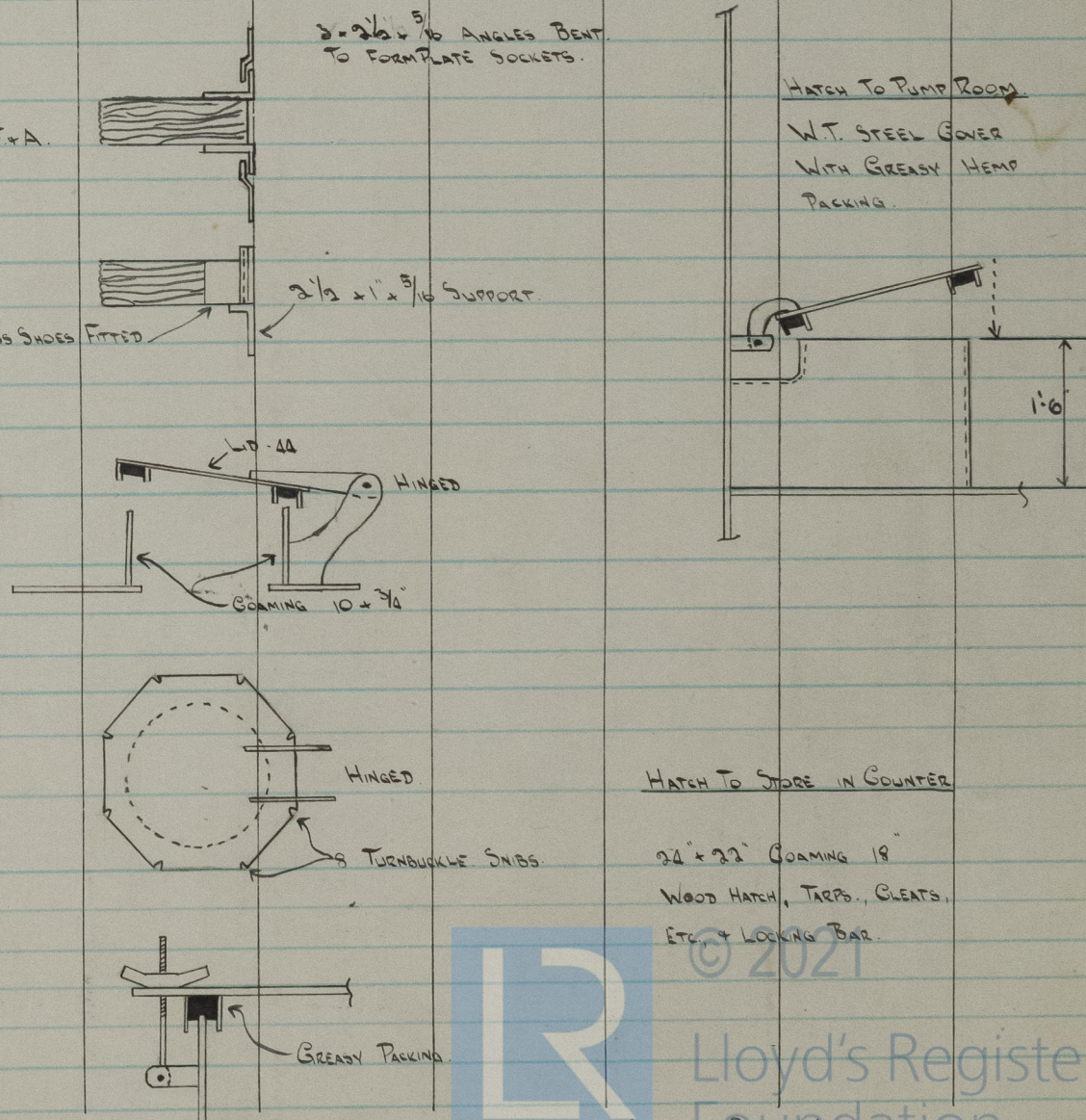




PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

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 <sup>TRUNK</sup> 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		
	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	7 x 4 WOOD	7 x 4 WOOD	7 x 4 WOOD	7 x 4 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	Tx'SHIP	Tx'SHIP	Tx'SHIP	Tx'SHIP		
Bearing Surface							
Spacing of Cleats		2'-0"	2'-0"	2'-0"	2'-0"		
Number of Tarpaulins		2	2	2	2		
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					
Are battens and wedges efficient and in good condition?		Yes					

ALTERNATIVE COVERS: 1/4" STEEL WITH GREASY HEMP PACKING AND 4" DIA SCUTTLE HATCH ON TOP. SEE SKETCH.





Give full particulars of the following :—

Fiddley, 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 fiddley covers, and if these are permanently attached in their proper positions)

Engine room skylights steel, steel flaps, no lights.  
No fiddley openings. Tunnel & 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" coaming, wood door. Also door at aft end of casing structure port side, 18" coaming wood door. 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 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'	} Wood plugs attached with chain
	Forecastle	22'	
	Poop	21'	

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

Port 1-2" Gun metal screw down valve. Straight thro' type with extended spindle to upper deck.

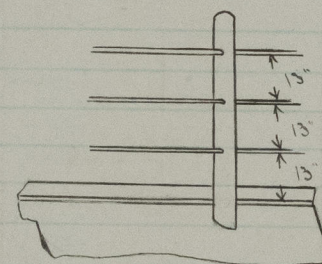
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Side Scuttles to spaces below freeboard and superstructure decks (state type or pattern, and if permanent or portable deadlights are supplied)

Sides cutters 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 sidehauser  
+ all along well P. & S from poop to forecable  
bulwark on forecable.

## Gangways and Lifelines

Life line fitted from fore end of poop to aft end of forecastle  
fitted on stanchions each side on top edge of trunk.

Gangway, Cargo and Coaling Ports in sides of ship

None.



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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