

Form LL. 4.C. Revised

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

HULLGATE. SURVEY FOR FREEBOARD

STEAMER, ~~TANKER, SALES~~ ^{S.M.} "EMPIRE FACET" *AGIOS NEKTARIOS* ~~WITH~~ WITHOUT TIMBER DECK CARGO
 Nationality BRITISH Builders' Name and No. of Ship GOOLE S.B. & REPAIR. CO LTD
 Port of Registry GOOLE GOOLE N° 431.
 Official Number 180368 Owners MINISTRY OF WAR TRANSPORT.
 Gross Tonnage 409.77. (MORS) CRAGGS & JENKIN LTD.
 Date of Build NOV 1944. Port and Date of survey GOOLE DURING CONSTRUCTION
 Name of Surveyor E. HENDERSON
 Particulars of Classification BS* (COASTING SERVICE) Names of Sister Ships EMP FACTOR, E. FASHION, E. FAIRHAVEN ETC.
 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	2 1/2"	✓	Corresponding Freeboard 1' 3 1/2"
FRESH WATER LINE " " "	2 1/2"		" " 1' 3 1/2"
TROPICAL LINE " " "	0	✓	" " 1' 6"
WINTER LINE below " "	2 1/2"		" " 1' 8 1/2"
WINTER NORTH ATLANTIC LINE " " "	4 1/2"	✓	" " 1' 10 1/2"

✗ not assigned

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 24-11-44
DATE OF EXPIRY 23-11-49

Assignment Notes

The scantlings and protective arrangements being in accordance with the Load Line Rules it is submitted that the freeboards be assigned

Chief Surveyor



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

on the 6th DECEMBER, 1944

Lloyd's Register Foundation Secretary

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 $\frac{\Delta \times 35}{L \times B \times D \times .85} = .7130$

Displacement and tons per inch immersion in salt water at summer load line 742 @ 7.95 i.p. @ 9.5'

Moulded depth 11.000. Deduction for Fresh Water $\frac{\Delta}{40T} = 2.333$ inches

Stringer Plate 3/8 .031. Round of Beam Correction

Sheathing on exposed deck T $\frac{(L-S)}{L}$ - 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 1/15 9.400 Restricted to

Depth Correction 1/130 1.631. Correction $\frac{\text{Difference}}{4} \times (1 - \frac{S}{L}) = 1.62 \times .2262 = .36650$

If restricted by superstructures 1.769 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.		14.83.
Trunk Aft	35'-1.		7'-0"		18/27	23.39.
" Forward	27'-10"		3'-4"		18 x 2.67	8.26.
Tonnage Opening Aft	18'-10"				27 x 0.	4.56.
" Forward					14.71 x 2.67	
Totals				56.89.		92.30.

Standard Height of Superstructure 6'-0"

" " R.Q.D. -

Percentage covered S/L = 40.34%

" " E/L = 65.46%

" from Table line A, B, (corrected for absence of forecastle if required) 55.28%

Percentage from Table by interpolation for Bridge

less than .2L if required = -

Deduction = 20.1 x .5528 = 11.11 off.

Percentage from Table for Tankers (or Timber ships) =

Deduction = -

* 2.67 FOR LOW COAMING ON HATCH FORWARD.

25.39
18.56
10.26

52.21 S = 52.21 / 109.10

S/L = 77.38%

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.	0.	24.1	-	1	-
1/3 L from A.P.	0.	10.72	-	4	-
2/3 L from A.P.	0.	2.61	-	2	-
Amidships	0.	0.	-	4	-
1/3 L from F.P.	0.	5.22	-	2	-
2/3 L " "	0.	21.44	-	4	-
F.P.	0.	48.2	-	1	-

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

= 6.607 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 = 1393/136 = 14.68 DRAUGHTS AND SEASONAL CORRECTIONS

	+	-		Sailor, Tanker, Steamer	Timber
Depth correction	1.77.	-			
Deduction for superstructures	-	11.11.			
Sheer correction	6.61.	-		Depth to Freeboard Deck in feet 11.031.	
Round of Beam correction	.37.	-		Summer Freeboard in feet 1.500	
Correction for thickness of deck amidships	-	-		Moulded Draught (d) 9.531.	(d1)
Other corrections, scantlings, etc.	5.68	-		Addition for Keel 1/2 .042.	
	14.43	11.11.	3.32.	Extreme draught 9.573	
Summer Freeboard in inches 1.6' = 18.00.				Deduction for Tropical and addition for Winter freeboard d/4 = 2 1/2 ins.	
Additional allowance for superstructures on Timber carrying ships =				Addition for Winter North Atlantic (if required) = 4 1/2 ins.	
Summer Timber Freeboard in inches =				Deduction for Tropical Timber Freeboard $\frac{d}{4}$ = - ins.	
				Addition for Winter " " $\frac{d}{3}$ = - ins.	
				" " N.A. Timber Freeboard (if required) = - ins.	

* DRAUGHT IN S.W. RESTRICTED.

As this vessel is less than 250'-0" in length
the Freeboard Report has not been compared with the
approved plans.

superstructure decks

Machinery Casings within super-

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

SHIPS NAME 'EMPIRE FACET'

OFFICIAL NUMBER 180368

Nationality and Port of Registry BRITISH GOOLE

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 x 1/4	5Ft. x 5/16.	2'-3"	WELDED.	2 @ 10" DIA.	5'-1"	4'-0"
R.Q.D. "								
Bridge Aft Bulkhead								
" Forward "								
Forecastle Bulkhead		5/16.	3x3 x 5/16.	2' 2 1/2'	-	2 @ 4'-10" x 1'-10"	1'-3"	8'-0"
Trunk, Aft		5/16.	3 1/2" x 5/16.	1'-9"	-	-	-	4'-0"
" Forward		5/16.	4 1/2" x 5/16.	1'-7 5/8"	-	-	-	3'-4"
Exposed Machinery Casings on } Freeboard or R.Q. Decks }								
Exposed Machinery Casings on } superstructure decks }	5/16.	1/4	4FL x 5/16.	1'-9"	WELDED AT TOP. BKT. AT Btm.	3 @ 4'-11" x 1'-9"	1'-6"	4'-3'-8 1/2"
Machinery Casings within Super- structures not fitted with Cl. 1 closing appliances }								
Deckhouses on flush deck ships								

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

Poop Bulkhead	
R.Q.D. "	
Bridge Aft Bulkhead	
" Forward "	
Forecastle Bulkhead	STEEL DOORS OPERATED BOTH SIDES.
Exposed Machinery Casings on } Freeboard or R.Q. decks }	
Exposed Machinery Casings on } superstructure decks }	
Machinery Casings within super- structures not fitted with Cl. 1 Closing Appliances }	
Deck houses on Flush Deck ships	

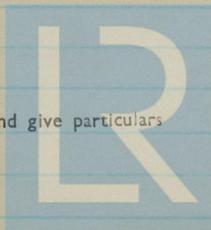
PARTICULARS OF FREEING ARRANGEMENTS

	Length of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side	Area each side	Rule Area
After Well					
	SEE SKETCH.				
Forward Well					

State fore and aft position and height above } After Well
deck to bottom of port, for each port }
Forward Well

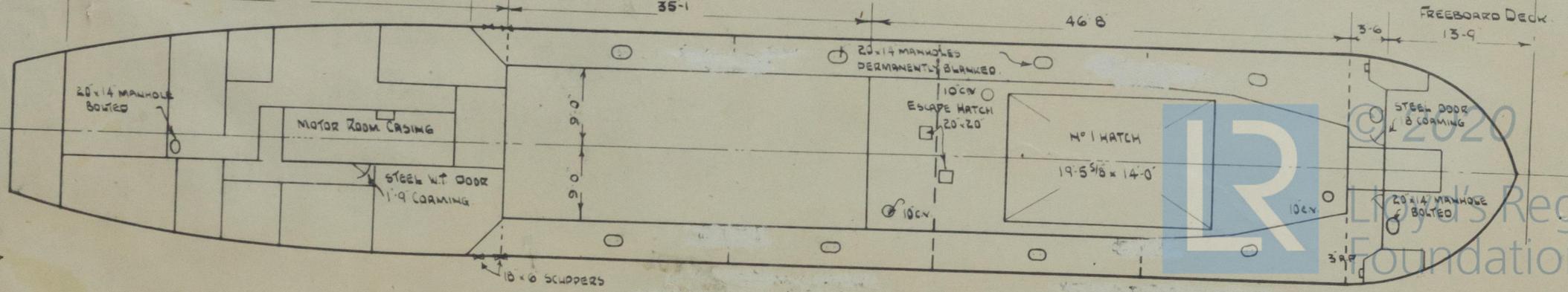
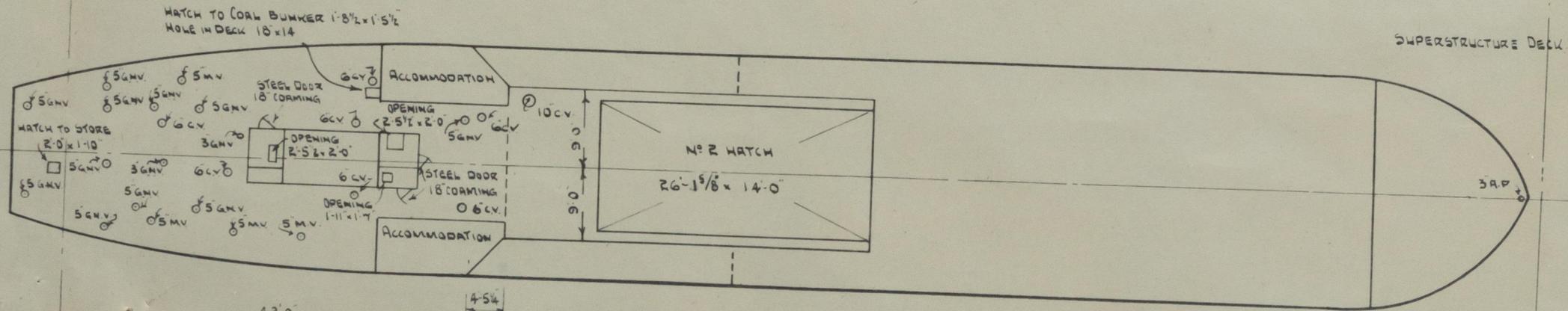
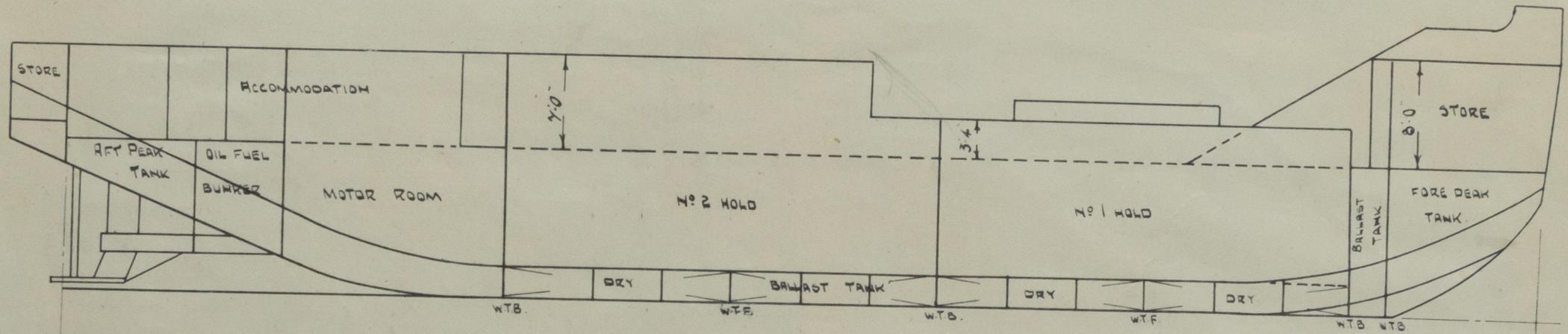
State whether freeing ports are fitted with shutters, bars or rails, and give particulars

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

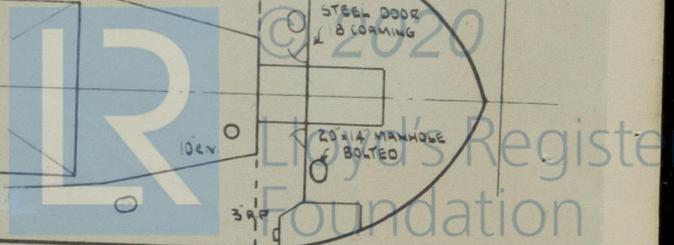


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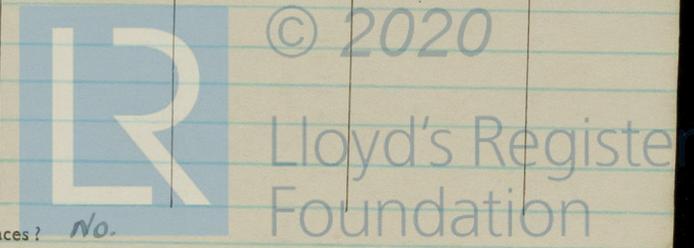
PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Number and description of Hatchway from forward	No. 1. CARGO H.	No. 2. CARGO H.	ESCAPE HATCHES TO NOS. 1 & 2 HOLDS.	COALING HATCHES TO GALLEY.	HATCH TO AFTER STORE				
Dimensions of Hatchway	20'-0" x 14'-0"	26'-3" x 14'-0"	1'-9" x 1'-9"	1'-6 1/2" x 1'-5 1/2"	2' x 1'-10"				
COAMINGS	Height above } steel } deck } wood }	4'-2"	7'-10"	1'-6"	1'-4"	1'-6"			
	Thickness } sides } ends }	1/2"	1/2"	5/16"	5/16"	5/16"			
	Stiffeners								
Brackets or Stays									
HATCH BEAMS	Number	2.	3.						
	Spacing	6'-8"	6'-8"						
	Scantling and Sketch	10" x 6" x 40 LBS. R. S. S.	10" x 6" x 40 LBS. R. S. S.						
Bearing Surface and thickness of carriers or sockets									
FORE AND AFTERS	Number								
	Spacing								
	Unsupported lengths								
	Scantling and Sketch								
Bearing Surface and thickness of carriers or sockets									
HATCH COVERS	Material	WOOD.	WOOD.	STEEL.	STEEL.	WOOD.			
	Thickness	2 7/8"	2 5/8"	1/4"	1/4"	2 5/8"			
	How Fitted	F & A.	F & A.	HINGED WITH	HINGED WITH	F & A.			
	Bearing Surface	2 3/16"	2 3/16"	HEMP PACKING.	HEMP PACKING	2.			
Spacing of Cleats	24"	24"	SECURED BY	SECURED BY	2 EACH SIDE.				
Number of Tarpaulins	2.	2.	HANDLES.	HANDLES.	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? NO.
 Are battens and wedges efficient and in good condition? YES.



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)

1- COWL VENT P&S. 10" DIA. 2'-0" COAMING WELDED TO CASING TOP. 8'-5" ABOVE DECK.
 1- G.N. " " 4" " 1'-0" ABOVE CASING " " " " 8'-5" " "
 2- HINGED STEEL SKYLIGHT FLAPS, P&S. 2'-3" x 2'-0". NO BULLSEYES ON CAS. TOP. 4'-6" " "
 1'-9" JUAL LIGHT PROOF VENT. 8" COAMING WELDED TO CASING TOP. 8'-5" " "
 1-2" G.N. VENT. 9" " " " " SIDE. 7'-3" " "

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 OFFICERS' ACCOMMODATION. 18" STEEL COAMING DOORS OPERATED BOTH SIDES.
 - - CARGO " " " " " " " "
 - - E. ROOM " " " " " " " "

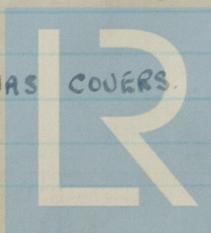
Ventilators in exposed positions on freeboard, raised quarter and superstructure decks to spaces below freeboard decks and fully enclosed superstructures enclosed by Class 1 appliances (state height of steel coamings, pitch of rivets in deck connection, type of closing arrangements) POOP DECK.

4-6" COWL VENT PORT. 3'-0" COAMING WELDED TO DECK. - TO ACCOMMODATION & GALLEY. W.P. & C.C.
 3-6" " " STAR. " " " " " " " " - SALOON. W.P. & C.C.
 5-5" G.N. " PORT. 2'-2" " STUDDED " " " " - PANTRY, CREWS SPACE, JENS & AFTER STORE. W.P. & C.C.
 4-5" " " STAR. " " " " " " " " - WASH PLACES, W.C. & AFTER STORE. W.P. & C.C.
 1-5" " " ON & " " " " " " " " - J.E.M.S. W.P. & C.C.
 2-5" M. " PORT. " " " " " " " " - CREWS SPACE, & J.E.M.S. RUBBER JOINT SCREW TOP
 3-5" " " STAR. " " " " " " " " - ACCOMMODATION & W.C. " "
 1-9" COWL " STAR. 3'-0" " WELDED " " " " - E. ROOM STARTING PLATFORM. W.P. & C.C.
 2-10" " " PORT & STAR. TO CARGO HOLDS. 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)

1-3" G.N. AIRPIPE ON & 2'-6" ABOVE FORECASTLE DECK STUDDED TO DECK, TO FOREPEAK.
 1-5" " " P&S. 4'-3" " UPPER " WELDED " " " NOS. 1-2-3-4 SIDE TANKS.
 1-3" " " " 1'-6" " POOP " " " " " AFTER PEAK.

ALL AIR PIPES FITTED WITH WOOLY PLUGS & CANVAS COVERS.



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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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