

22/6/44.

Form LL. 4.C. Revised

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OWNERS ✓

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THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

SURVEY FOR FREEBOARD

STEAMER, ~~TANKER~~, ~~SAILER~~: S.S. "NORMAN QUEEN" ~~WITH~~ TIMBER DECK CARGO
WITHOUT

Nationality BRITISH Builders' Name and No. of Ship ARDROSSAN DOCKYARD, LTD.
 Port of Registry LONDON YARD N°397.

Official Number 169965 Owners BRITISH CHANNEL ISLANDS SHIPPING
 Gross Tonnage 1047.43 Co., LTD.

Date of Build 10/1944. Port and Date of survey ARDROSSAN — DURING CONSTRUCTION
 Name of Surveyor T.B. TILLERY.

Particulars of Classification B.S.* Names of Sister Ships

Type of Superstructures POOP, R.Q.D., BRIDGE, & 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>6 1/2"</u>	Corresponding Freeboard	<u>4' 8"</u>
FRESH WATER LINE " " "	<u>4"</u>	" " "	<u>4' 1 1/2"</u>
TROPICAL LINE " " "	<u>2 1/2"</u>	(LIMITED)	<u>4' 4"</u>
WINTER LINE below " " "	<u>3 1/2"</u>	" " "	<u>4' 5 1/2"</u>
WINTER NORTH ATLANTIC LINE " " "	<u>5 1/2"</u>	" " "	<u>4' 11 1/2"</u>
		" " "	<u>5' 1 1/2"</u>

SUMMER TIMBER FREEBOARD recommended amidships from top of deck line

TROPICAL FRESH WATER Timber line above L.S.			
FRESH WATER " " " "		Corresponding Freeboard	
TROPICAL " " " "		" " "	
WINTER " " below " "		" " "	
WINTER NORTH ATLANTIC " " " "		" " "	

Number of years recommended for load line certificate

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

7th June 1944



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Lloyd's Register
Foundation
Secretary

005788-005789-0112 1/8

Length on summer load line $202' \cdot 0"$ Moulded Breadth $32' \cdot 7"$ Moulded Depth $15' \cdot 1\frac{1}{2}"$ Depth of Keel $1'$

Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth 1741 Tons

Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times .85} = .7201$

Displacement and tons per inch immersion in salt water at summer load line $2062 \text{ Tons @ } 13' 13 \text{ T.P.I.}$

Moulded depth $15' 12\frac{1}{2}"$ $19' 4\frac{1}{2}"$ Deduction for Fresh Water $\frac{\Delta}{40 \text{ T}} = 3' 9\frac{1}{2}"$ inches

Stringer Plate $4\frac{1}{2}"$ $20 \text{ Dk } 38$ Round of Beam Correction $0' 03\frac{1}{2}"$ $0' 03\frac{1}{2}"$

Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) -$ Ships Round of Beam $8' 8\frac{1}{2}"$ inches

Rise of floor (in sillers) Standard Round of Beam $\frac{B \times 12}{50} = 8' 20"$

Depth for Freeboard (D) $15' 16"$ $19' 4\frac{1}{2}"$ Difference $0' 55"$

Table Depth $1' 15"$ $13' 46\frac{1}{2}"$ Restricted to

Depth Correction $1' 13"$ $1' 69\frac{1}{2}"$ Correction Difference $\frac{\text{Difference}}{4} \times \left(1 - \frac{E}{L} \right) = .014 \times .1692$

If restricted by superstructures $2' 63\frac{1}{2}"$ $19' 4\frac{1}{2}"$ $1' 13"$

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)	Standard Height of Superstructure
							6'-0"
Roop	38'-9"		4'-00"	38'-75"	38'-75"	" " R.Q.D.	3'-68"
Raised Quarter Deck	94'-0"		4'-3 1/2"	94'-00"	94'-00"	Percentage covered S/L =	83-16 %
Bridge	12'-05 1/2" F		7'-0"	12'-00"	13'-33"	" " E/L =	83-08 %
	14'-00" A					" from Table line A, B, (corrected for absence of forecastle if required)	79-12 %
Forecastle	23'-3"		7'-0"	23'-25"	21'-72"	Percentage from Table by interpolation for Bridge less than 2L if required =	
Trunk Aft						Deduction =	26.2 x 79.12 = 20.73 of
" Forward						Percentage from Table for Tankers (or Timber ships)	
Tonnage Opening Aft						Deduction =	
" Forward							
Totals				168'-00"	164'-80"		

R.O. Station		Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product	Mean Actual sheer aft	=	MORE THAN 1
Bridg A.P.		27½	30.20	45.60	1	45.60	Mean Actual sheer forward	=	MORE THAN 1.
L from A.P.		12	13.44	20.28	4	81.12	Standard	=	
L from A.P.		3	3.32	5.07	2	10.14	Length of enclosed superstructure forward of admidships	=	
Amidships		—	—	—	4	—	Length of ship	=	
L from F.P.		8	6.64	8.00	2	16.00	Length of enclosed superstructure aft of amidships	=	
L " "		31½	26.88	31.50	4	126.00	Length of ship	=	
F.P.		72	60.40	72.00	1	72.00	Sheer Correction	=	
					18	350.86	Difference × (75 - $\frac{S}{2}$)	=	4.392 × 334 = 1.468 OFF
Effective Mean Sheer						19.492			
Standard " " .05L + 5						15.100	If limited on account of midship superstructure	=	
Difference						4.392	" to maximum allowance of 1½ ins. per 100 ft.	=	

TABULAR FREEBOARD corrected for flush deck if required = 23.44 ✓			
Correction for co-efficient = $\frac{14001}{136}$		= 24.14. DRAUGHTS AND SEASONAL CORRECTIONS	
	+	-	
Depth correction	2.63	-	
Deduction for superstructures	-	20.73	Depth to Freeboard Deck in feet 19.448 ✓
Sheer correction	-	1.47	Summer Freeboard in feet 4.667
Round of Beam correction	-	-	Moulded Draught (d) 14.938 14.781
Correction for thickness of deck amidships	-	-	Addition for Keel 1" 0.083
Other corrections, scantlings, etc.	-	-	Extreme draught 14.1078 14.864
	2.63	22.20	- 19.57
Summer Freeboard in inches	4 1/2"	=	4.57
Additional allowance for superstructures on		0' 4.5"	Deduction for Tropical Timber Freeboard $d \frac{1}{d}$
Timber-carrying ships From R.O. Dk.	=	3' 4.36	Addition for Winter " " $d \frac{1}{3}$
Summer Timber Freeboard in inches	=	4' 8"	N.A. Timber Freeboard (if required) = ✓

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

SHIPS NAME. S.S. "NORMAN QUEEN".

OFFICIAL NUMBER 169965

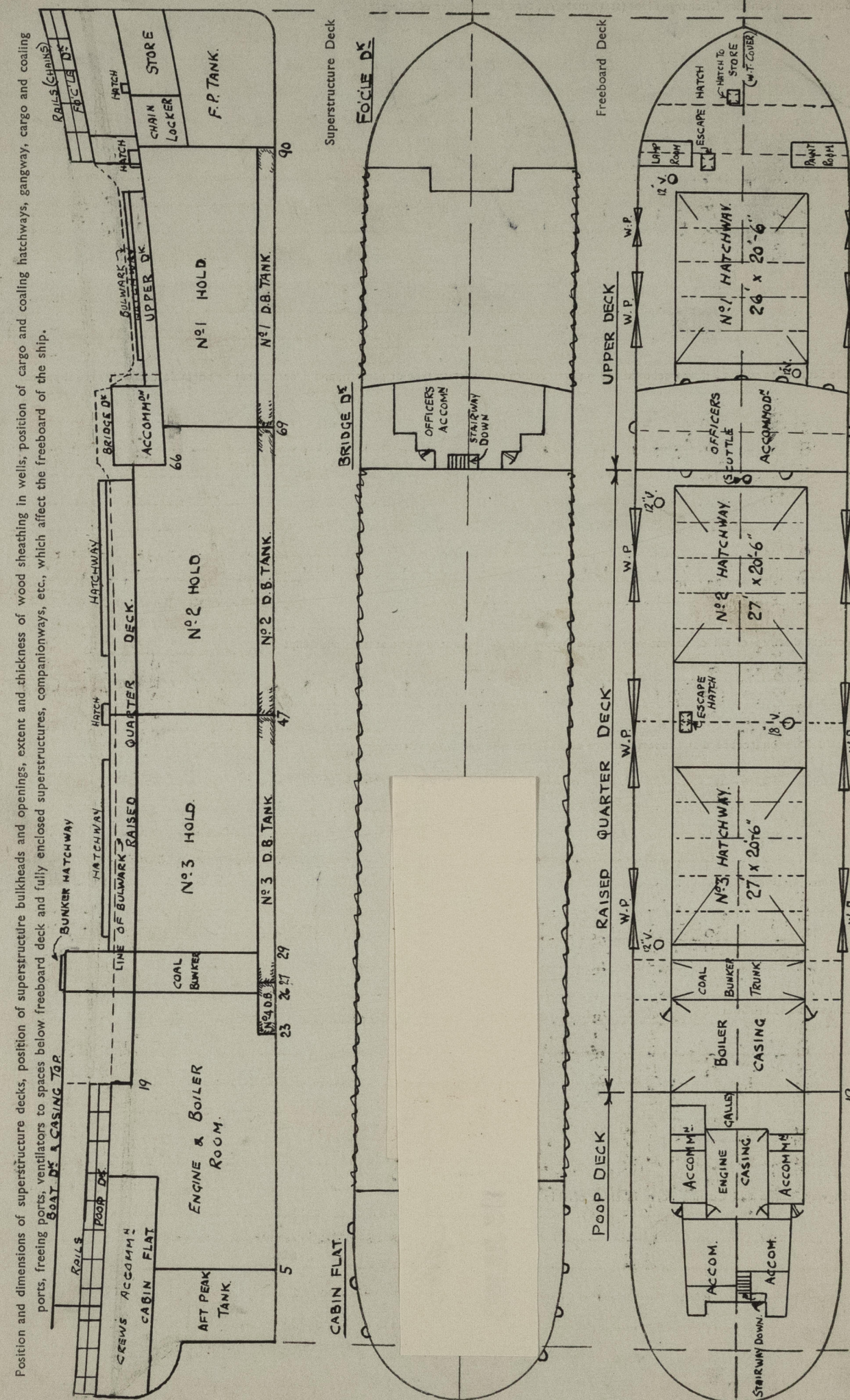
Nationality and Port of Registry BRITISH. LONDON.

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	30"	30"	-	-	-	-	2'8½"
R.Q.D. "	30"	30"	{ 3" x 2½" x 360A 6 x 3" x 380A	27" 36"	-	-	4'3½"
Bridge Aft Bulkhead	30"	30"	{ Do.	Do.	-	-	2'8½"
" Forward "	30"	30"	4 x 3" x 30" B.A.	27"	BKT'S TOP & BOTTOM.	-	7'0"
Forecastle Bulkhead							
Trunk, Aft							
" Forward							
Exposed Machinery Casings on Freeboard or R.Q. Decks	28"	28"	6" x 3" x 350A	30"	{ BKT'S AT TOP OVER 45° ANGLE AT BOTTOM 2 @ 4'9" x 2'0"	18"	9'8"
Exposed Machinery Casings on superstructure decks							
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	No OPENINGS
R.Q.D. "	No OPENINGS
Bridge Aft Bulkhead	No OPENINGS
" Forward "	No OPENINGS
Forecastle Bulkhead	OPEN.
Exposed Machinery Casings on Freeboard or R.Q. deck	HINGED STEEL DOORS. MANIPULATED FROM BOTH SIDES.
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 (R.P.D.)	94'-0"	3'-0 1/2"	1 @ 14' x 8 1/2"; 1 @ 16' x 8 1/2"; 1 @ 12' x 8 1/2"; 8 1 @ 9' H.P.	30.2 sq	18.8 sq
Forward Well	34'-0"	3'-6"	1 @ 11'0" x 8 1/2"; 1 @ 6' x 8 1/2"; 1 @ 9' H.P.	12.5 sq	9.9 sq
State fore and aft position and height above deck to bottom of port, for each port	After Well		From BRIDGE AT BND; 6'-0"; 32'-0"; 60'-0"; 78'-0";	HEIGHT 4"	
	Forward Well		From BRIDGE AT BND; 7'-0"; 22'-0"; 30'-0";	" 4"	
State whether freeing ports are fitted with shutters, bars or rails, and give particulars:			<hr/>		
Give particulars of freeing port area, etc., on superstructure decks			<hr/>		

[illegible]

BRIDGE DECK

Fo

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



113 JUL 1950

OP DECK

RAISED QUARTER DECK

UPPER DECK

Fre

Give full particulars of the following:—

Fiddle, Funnel and Vent Coamings, Engine Room skylight and other openings in Machinery Casings tops and their means of closing (state height of coamings, type of fiddle covers, and if these are permanently attached in their proper positions)

VENTS. 2 @ 24" DIA. ON CASING TOP TO STROKEHOLD
2 @ 18" " " BOAT D TO ENGINE ROOM.

FUNNEL. OUTER & INNER CASINGS OF $\frac{3}{16}$ "; OUTER CASING DECK ANGLE $3 \times 3 \times \frac{3}{8}$ ".

FIDDLE OPENINGS. 1 @ 6'8" x 3'0" AND 2 @ 4'9" x 1'9"; GRATINGS WITH HINGED STEEL COVERS; COAMINGS $2 \frac{1}{2} \times 2 \frac{1}{2} \times 25$ " ANGLE
E.R. SKYLIGHT. 10'6" x 7'0"; COAMING 11' x 25"; 4 HINGED FLAPS.

Flush Bunker Scuttles on freeboard and superstructure decks (state material, type of joints, etc., and if secured by hinge or permanent chain attachment)

AT FORE END OF N°2 HATCH ON R.Q. DECK TO PANTRY BUNKER; 1 @ 15" DIA. OF GALV. CAST IRON, WITH BAYONET JOINTS & GRATING BELOW; ADJACENT STOWAGE PROVIDED.

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):

BRIDGE DECK TO OFFICERS; 1 PAS; STEEL; SILLS 12"; HINGED WOOD DOORS MANIPULATED BOTH SIDES
POOP DECK. TO CREW; 1 AFT; STEEL; SILL 18"; HINGED WOOD DOOR " " "
TO E.R. PASSAGE; 1 PAS; " " 18"; HINGED WOOD DOORS " " "

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. 1 @ 12" DIA. COWL VENT, FOR (P) TO N°1 HOLD; COAMING 36" x 34"; $\frac{5}{8}$ " RIVETS @ 4 DIA.
1 @ 12" " " " AFT(S) " " " ON HATCHWAY TRUNK; COAMING 30" x 34"; $\frac{5}{8}$ " RIVETS @ 4 DIA.
BRIDGE DECK. 2 (S) & 3 (P) 6" DIA. COWL VENTS TO OFFICERS ACCOMM.; COAMINGS 30" x 30"; $\frac{1}{2}$ " BOLTS @ 5 DIA.
R.Q. DECK. 2 @ 12" DIA. COWL VENTS (P) TO N°2 & 3 HOLDS; COAMINGS 30" x 34"; $\frac{5}{8}$ " RIVETS @ 4 DIA.
1 @ 18" " " VENT(S), " " " ON HATCHWAY TRUNK; COAMING 30" x 38"; $\frac{5}{8}$ " RIVETS @ 4 DIA.
POOP DECK. 5 @ 6" DIA. COWL VENTS
1 @ 7" " " } TO ACCOMMODATION; COAMING 30" x 30"; WELDED TO DECK.
1 @ 8" " " }

CLOSING ARRANGEMENTS:— 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 @ $3 \frac{1}{2}$ " DIA. AIR PIPE TO F.P. TANK $\frac{3}{8}$ " SNIFTER HOLE ON ALL AIRPIPES TO TANKS.
2 @ 4" " " " N°1 D.B. " 36" ABOVE UPPER DECK.
2 @ 4" " " " " N°2 " " 30" " " R.Q. DECK
2 @ 4" " " " " N°3 " " " (UNDER BULWARK RAIL)
2 @ 3" " " " " N°4 " " " " (" " ")
1 @ $3 \frac{1}{2}$ " " " " " A. PEAK " 18" " " POOP DECK
1 @ $1 \frac{1}{2}$ " " " " " " " " " WOOD " " }
1 @ 4" " " " " STORE OVER F.P. TANK. 30" ABOVE UPPER DECK UNDER FORECASTLE.
2 @ $4 \frac{1}{2}$ " " " " " BUNKERS; 30" " R.Q. DECK (UNDER BULWARK RAIL).

CLOSING ARRANGEMENTS:— WOOD PLUGS & CANVAS COVERS.

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

DECK SCUPPERS DISCHARGE OVERBOARD THRO' DECK STRINGER ANGLE.

VALVES OF BRASS — BACK BALANCED TYPE WITH SINGLE FLAP.

AFT:— 4" DIA.; 2 AFT & 1 STAR? = 3
2" " ; 1 " & 2 " = 3
1 1/2" " ; 1 " & 2 " = 3
MIDSHIPS. 4" " ; 1 " = 1
2" " ; 1 " & 1 " = 2
12 VALVES

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

NONE FITTED BELOW FREEBOARD DECK
BELOW SUPERSTRUCTURE DECKS: POOP; 3 (P) & 4 (S) @ 9" DIA.
BRIDGE 1 (P) & 1 (S) & 2 AT AFT END @ 12" DIA.; 4 @ 16" DIA. AT FORE END.

ALL SCUTTLES OF ORDINARY PATTERN WITH BRASS FRAMES.
HINGED C.I. DEADLIGHTS FITTED TO ALL SCUTTLES.

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)

FORECASTLE:— RAILS 3'0" HIGH; STANCHIONS $3 \times \frac{3}{4}$ " FLAT 4'9" APART; WITH 2 TIER OF CHAINS.

POOP. — RAILS 3'0" HIGH; " " " 5'3" " " 1 1/2" TOP & 7/8" INTERMEDIATE ROD.

Gangways and Lifelines OF 2 1/2" MANILLA ROPE FROM BRIDGE TO POOP.

Gangway, Cargo and Coaling Ports in sides of ship

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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