

253 x 43'-1/2" x 20'-0 3/8"

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

SURVEY FOR FREEBOARD

1510.

STEAMER, ~~TANKER~~, ~~SAILER~~ JOHN S. PILLSBURY S.S. WITH
~~WITHOUT~~ TIMBER DECK CARGO

Nationality British Builders' Name and No. of Ship Carlo S. & E. Co. Ltd Hull.
 Port of Registry St. Catharines Ont. TORONTO. Yard No 668

Official Number 149071 Owners Eastern Steamship Co. Ltd
Upper Lakes & St. Lawrence Transportation Co. Ltd.

Gross Tonnage 1754

Date of Build 3/1926 Port and Date of Survey Toronto, Ont. 14/4/37
 Name of Surveyor E Russell Macmillan

Particulars of Classification B.S. X. [Great Lakes & Limited Gulf of St. Lawrence Service] Names of Sister Ships "GEORGE L. TORIAN," "SHIRLEY G. TAYLOR,"
"JOHN A. HOLLOWAY," "SHELTON WEEDE."

Type of Superstructures

Trade of Ship Liverpool (sunk)

Service Endorsement if any and only so long as the ship is employed in Great Lakes & Limited Gulf of St. Lawrence Service.

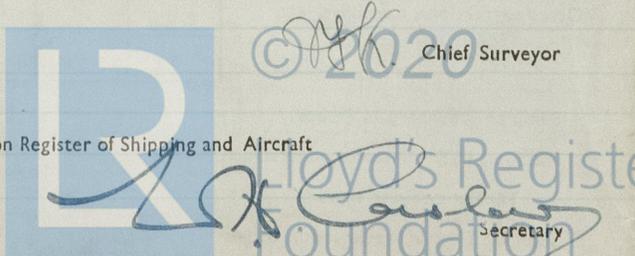
SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (.....wood.....steel)		
TROPICAL FRESH WATER LINE above centre of disc	—	Corresponding Freeboard —
FRESH WATER LINE	" " " 4"	" "
TROPICAL LINE	" " " 4"	" " 4'-3"
WINTER LINE	below " " 4"	" " 4'-11"
WINTER NORTH ATLANTIC LINE	" " " —	" "

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

- 1 June 1936.

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


 Chief Surveyor

 Secretary

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

on the 14th December 1938

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INTERNATIONAL
COMPUTATION OF FREEBOARD

Length on summer load line 253' Moulded Breadth 43'-1/2" Moulded Depth 20'-0 1/2" Depth of Keel
 Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth 4472 Tons
 Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times .85} = .842$
 Displacement and tons per inch immersion in salt water at summer load line
 Moulded depth 20.042 Deduction for Fresh Water $\frac{\Delta}{40T} =$ inches
 Stringer Plate 84" x .60" .050 Round of Beam Correction
 Sheathing on exposed deck T $(\frac{L-S}{L})$ - Ships Round of Beam 10.5 inches
 Rise of floor (in sailers) - Standard Round of Beam $\frac{B \times 12}{50} = 10.35$
 Depth for Freeboard (D) 20.092 Difference .15
 Table Depth $\frac{D}{.85} = 16.867$
 Depth Correction 3.225 Correction $\frac{\text{Difference}}{4} \times (1 - \frac{E}{L}) = .0375 \times .8604 = .032$ OFF.

If restricted by superstructures

Station	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop						
Raised Quarter Deck						
Bridge		F				
		A				
Forecastle	35.33	8.0"	35.33	5.603	29.29	
Trunk Aft		+ 3.0' bulk				
" Forward		5.0'				
Tonnage Opening Aft						
" Forward						
Totals			35.33		29.29	

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.	20.75	35.3	20.75	1	20.75
1/2 L from A.P.	-	-	-	4	-
1/4 L from A.P.	-	-	-	2	-
Amidships	-	-	-	4	-
1/2 L from F.P.	-	-	-	2	-
1/4 L " "	-	-	-	4	-
F.P.	20.75	70.6	20.75	1	20.75
				18	41.5
Effective Mean Sheer					2.306
Standard " "					17.650
Difference					15.344

Mean Actual sheer aft = less than 1
 Mean Actual sheer forward = less than 1
 Length of enclosed superstructure forward of amidships =
 Length of enclosed superstructure aft of amidships =
 Sheer Correction = Difference $\times (75 - \frac{S}{L}) = 15.344 \times .6802 = 10.436$ 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 = 32.93
 Correction for co-efficient = $\frac{1.527}{1.36} = 36.86$

	+	-	Sailer, Tanker, Steamer	Timber
Depth correction	6.28	-		
Deduction for superstructures	-	1.81		
Sheer correction	10.44	-		
Round of Beam correction	-	.03		
Correction for thickness of deck amidships	-	-		
Other corrections, scantlings, etc. AND COAMINGS.	3.26	-		
	19.98	1.84	+ 18.14	
Summer Freeboard in inches			55.00	
Additional allowance for superstructures on Timber carrying ships			3.877	
Summer Timber Freeboard in inches			58.877	

DRAUGHTS AND SEASONAL CORRECTIONS
 Depth to Freeboard Deck in feet 20.092
 Summer Freeboard in feet 4.583'
 Moulded Draught (d) 15.509 (d1)
 Addition for Keel 1.00
 Extreme draught 15.609
 Deduction for Tropical and addition for Winter freeboard $d/4 = 3.877$ ins. 4
 Addition for Winter North Atlantic (if required) = ins.
 Deduction for Tropical Timber Freeboard $\frac{d1}{d} =$ ins.
 Addition for Winter " " $\frac{d1}{3} =$ ins.
 " " N.A. Timber Freeboard (if required) = ins.

MIN. INT. FREEBOARD = 51.74" (4.31') STRENGTH FREEBOARD = 4'-6 1/2" 0055 2/10

Form LL. 4.D.
 THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT
 SURVEY FOR FREEBOARD
 CONDITIONS OF ASSIGNMENT

SHIPS NAME OFFICIAL NUMBER
 Nationality and Port of Registry

PARTICULARS OF SUPERSTRUCTURES, TRUNKS, CASINGS, DECKHOUSES

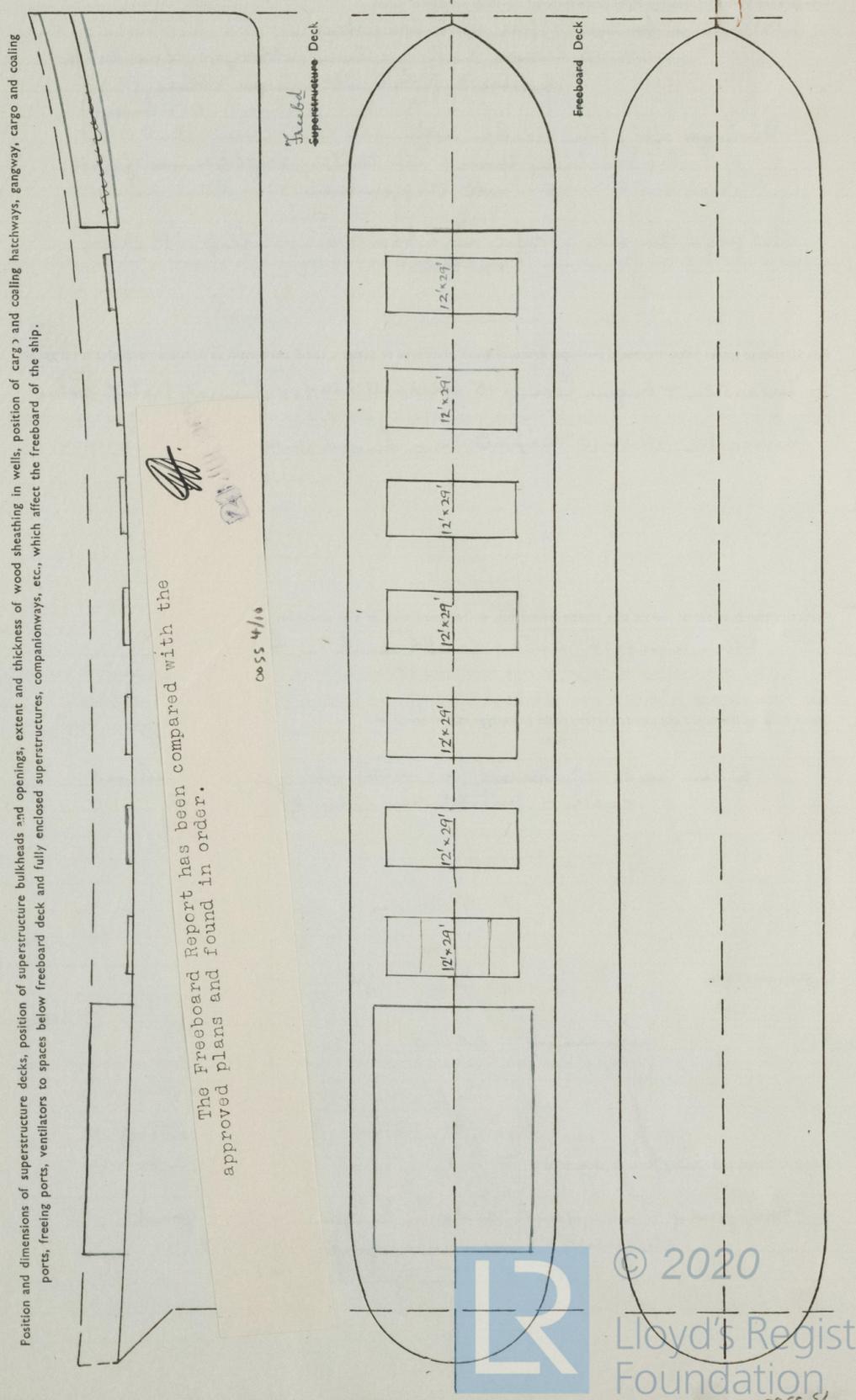
	Coaming	Plating	Stiffeners	Spacing	End Attachments	No. and size of Openings	Height of Sills	Height of Casings
Poop Bulkhead								
R.Q.D. "								
Bridge Aft Bulkhead								
" Forward "								
Forecastle Bulkhead	3/2 x 3/2	1/4"		30"				
Trunk, Aft								
" Forward								
Exposed Machinery Casings on Freeboard or R.Q. Decks								
Exposed Machinery Casings on superstructure decks								
Machinery Casings within Superstructures 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	3 doors - 58" x 24" x 1/4" solid wood + 1/16" plates - 1 1/4" sills.
Exposed Machinery Casings on Freeboard or R.Q. decks	Eng. Casings - inside house - steel. Lower mounted 1/6/31.
Exposed Machinery Casings on superstructure decks	Stakehold entrance - Outer door - 58" x 24" x 1/4" steel - 1 1/4" sill } steel casings in entranceway. Inner " " " " - 1 1/4" " } Engine Room. Cut - Outer " " " " - 1 1/4" " } wood casing in passageway. Inner " " " " - 1 1/4" " } No fantail entrance
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			None (Open rails all around.)		
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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INTERNATIONAL

COMPUTATION OF FREEBOARD

Length on summer load line 253' Moulded Breadth 43'-1 1/2" Moulded Depth 20'-0 1/2" Depth of Keel
 Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth 4472 Tons
 Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times 85} = .842$
 Displacement and tons per inch immersion in salt water at summer load line
 Moulded depth 20.042 Deduction for Fresh Water $\frac{\Delta}{40T} =$ inches
 Stringer Plate 84" x .60" .050 Round of Beam Correction
 Sheathing on exposed deck T $\left(\frac{L-S}{L}\right)$. Ships Round of Beam 10.5 inches
 Rise of floor (in sailers) . Standard Round of Beam $\frac{B \times 12}{50} =$ 10.35
 Depth for Freeboard (D) 20.092 Difference .15
 Table Depth $\frac{7}{15}$ 16.867 Restricted to
 Depth Correction 3.225 Correction $\frac{\text{Difference}}{4} \times \left(1 - \frac{E}{L}\right) = .0375 \times .8604 = .032$ OFF.

If restricted by superstructures

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop						
Raised Quarter Deck						
Bridge		F				
		A				
Forecastle	<u>35.33</u>		<u>8.0"</u>	<u>35.33</u>	<u>6.03</u>	<u>29.29</u>
Trunk Aft			<u>+ 3.0</u>			
" Forward			<u>5.0"</u>			
Tonnage Opening Aft						
" Forward						
Totals				<u>35.33</u>		<u>29.29</u>

Standard Height of Superstructure 6.03'
 " " R.Q.D.
 Percentage covered S/L = 13.96
 " " E/L = 11.58
 " from Table line A, B, (corrected for absence of forecastle if required) 5.79
 Percentage from Table by interpolation for Bridge less than .2L if required =
 Deduction = 31.3 x .0579 = 1.812
 Percentage from Table for Tankers (or Timber ships) =
 Deduction =

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.	<u>20.75</u>	<u>35.3</u>	<u>20.75</u>	1	<u>20.75</u>
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.	<u>20.75</u>	<u>70.6</u>	<u>20.75</u>	1	<u>20.75</u>
				18	<u>41.5</u>
Effective Mean Sheer					<u>2.306</u>
Standard " "					<u>17.650</u>
Difference					<u>15.344</u>

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 $\times \left(75 - \frac{S}{2L}\right) = 15.344 \times .6802 = 10.436$ 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 = 32.93
 Correction for co-efficient = $\frac{1.527}{1.36} = 36.86$

	+	-	
Depth correction	<u>6.28</u>		
Deduction for superstructures		<u>1.81</u>	
Sheer correction	<u>10.44</u>		
Round of Beam correction		<u>.03</u>	
Correction for thickness of deck amidships			
Other corrections, scantlings, etc. AND COAMINGS.	<u>3.26</u>		
	<u>19.98</u>	<u>1.84</u>	<u>+ 18.14</u>
Summer Freeboard in inches			<u>55.00</u>
Additional allowance for superstructures on Timber carrying ships			<u>5.877</u>
Summer Timber Freeboard in inches			<u>52.123</u>
			<u>58.877</u>

DRAUGHTS AND SEASONAL CORRECTIONS

	Sailer, Tanker, Steamer	Timber
Depth to Freeboard Deck in feet	<u>20.092</u>	
Summer Freeboard in feet	<u>4.583</u>	
Moulded Draught (d)	<u>15.509</u>	(d1)
Addition for Keel	<u>.100</u>	
Extreme draught	<u>15.609</u>	
Deduction for Tropical and addition for Winter freeboard d/4 =	<u>3.877</u>	ins. 4"
Addition for Winter North Atlantic (if required)		= ins.
Deduction for Tropical Timber Freeboard $\frac{d1}{d}$		= ins.
Addition for Winter " " $\frac{d1}{3}$		= ins.
" " N.A. Timber Freeboard (if required)		= ins.

MIN. INT. FREEBOARD = 51.74 (4.3%) STRENGTH FREEBOARD = 4'-6 1/2" 0055 2/10

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SHIPS NAME

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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								
R.Q.D. "								
Bridge Aft Bulkhead								
" Forward "								
Forecastle Bulkhead	<u>3/2 x 3/2</u>	<u>1/4"</u>		<u>30"</u>				
Trunk, Aft								
" Forward								
Exposed Machinery Casings on Freeboard of R.Q. Deck								
Exposed Machinery Casings on superstructure decks								
Machinery Casings within Superstructures not fitted with Cl. 1. closing appliances								
Deckhouses on flush deck ships								

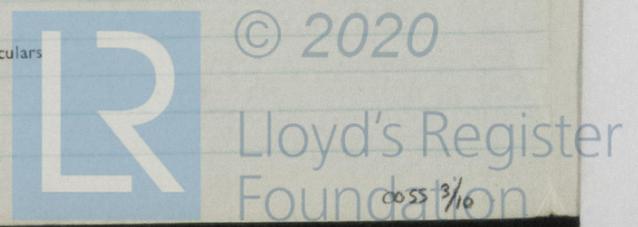
PARTICULARS OF CLOSING APPLIANCES (state if capable of being manipulated from both sides)

Poop Bulkhead	
R.Q.D. "	
Bridge Aft Bulkhead	
" Forward "	
Forecastle Bulkhead	<u>3 doors - 58" x 24" x 1 1/4" solid wood + 1/16" plates - 14" sills.</u>
Exposed Machinery Casings on Freeboard of R.Q. Deck	<u>Eng. Casing - inside house - steel. Latter mounted 1/6/31.</u>
Exposed Machinery Casings on superstructure decks	<u>Stokehold Entrance - Outer door - 58" x 24" x 1/4" steel - 16" sill } steel casings in entranceway. Inner " - " " " - 14" }</u>
Machinery Casings within superstructures not fitted with Cl. 1 Closing Appliances	<u>Engine Room. Out - Outer " - " " " - 16" } wood casings in passageway. Inner " - " " " - 14" }</u>
Deck houses on Flush Deck ships	<u>No fantail entrance</u>

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					
State fore and aft position and height above deck to bottom of port, for each port					
State whether freeing ports are fitted with shutters, bars or rails, and give particulars					
Give particulars of freeing port area, etc., on superstructure decks					

None (Open rails all around.)



1510

1/12/38.

S.S. "JOHN S. PILLSBURY"

Freeboards same as provisionally assigned.

It is noted that the hatch beams have been reinforced to rule standard.



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Lloyd's Register
Foundation

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PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Number and description of Hatchway from forward	1, 2, 3 & 4	5, 6 & 7	1 & 7
Dimensions of Hatchway	12' x 29'	12' x 29'	
COAMINGS	Height above deck steel wood	9" 3/2 x 14 BA	12" 3/2 x 5 BA.
	Thickness sides ends		
	Stiffeners	None	As 1.
	Brackets or Stays	None.	"
HATCH BEAMS	Number	1	"
	Spacing	6' 0"	"
	Scantling and Sketch	7 x 7 wood	"
	Bearing Surface and thickness of carriers or sockets	3 x 3 x 3/8	"
FORE AND AFTERS	Number	3	3
	Spacing	7'-3"	"
	Unsupported lengths		
	Scantling and Sketch	J-3 1/2 x 3 1/2 x 6 } 1 each side - 9 x 3 1/2 x 6 B.A.	I 15 x 5 1/2 x 42.9#
Bearing Surface and thickness of carriers or sockets	3 1/2 x 3 x 1/2	As 1.	
HATCH COVERS	Material	Wood	"
	Thickness	2 3/4	"
	How Fitted	F & A.	"
	Bearing Surface	3" (x 3 1/2")	"
Spacing of Cleats	24"	"	
Number of Tarpaulins	2"	"	

Deck scuttle hatch - 18" plate coaming - 2 3/4" wood covers;
2 1/2" rest bars; cleats as required.

ALTERATIONS TO HATCHES IN COMPLIANCE WITH
I.I. RULES SHOWN IN REQ.

NOTE:- COAMINGS NOT RAISED.

Securing bars - 5 x 3 x 3/8 L - 2 athwartship each hatch

Are tarpaulins in good condition and in accordance with rule requirements? *Yes*
Are lashings provided in accordance with rule requirements? - *securing bars fitted.*

Are wood ~~boards~~ *beams* and ~~stays~~ steel shod at all bearing surfaces? *Yes*
Are battens and wedges efficient and in good condition? *Yes.*



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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)

Fiddles - 2 1/2" coaming - hinged steel covers.

Funnel - 12" Coaming.

E & B Vents have high coamings.

Eng Room skylight - steel

Bunker hatch - 30" coaming - 2 3/4" wood covers; 3" rod bars; cleats at 24" apart.

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)

None.

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)

None (except S.B. on forecastle deck)

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

Forecastle deck - S.N. airpipes - 18" high

Freeboard - " " - 8" to 18" high.

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

Discharges forward (from sink fore-castle)

All W.C. basin &c discharges have outlets just above sink deck - all fitted with clapper valves.

Discharges aft (from deckhouse)

In machinery space - all discharge outlets are fitted with clapper valves.

Ashtray - Star side - cover on hopper & hinged flap with lever, on outlet.

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

Fore-castle & Engine Room - 10" side scuttles - have hinged metal covers.

Fore-castle Ahd - 10" airports have hinged covers.

Vertical distance of sill of lowest side scuttle below top of freeboard deck at side amidships

Sills - about 18" below freebd deck in Eng. Room

Guard Rails on freeboard and superstructure decks (state type and where fitted)

Open rails - 2 tier rod (or wire) all around freeboard deck - portable in way of hatches.

Gangways and Lifelines

Lifelines fitted.

Gangway, Cargo and Coaling Ports in sides of ship

Gangway door each side in Engine Room - good strong W.T. doors - as originally fitted.

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

