

Form LL. 4.C. (Revised)

THE BRITISH CORPORATION REGISTER OF
SHIPPING AND AIRCRAFT
SURVEY FOR FREEBOARD

STEAMER, TANKER, SAILER: "CITY OF MONTREAL" ^{WITH} ~~WITHOUT~~ TIMBER DECK CARGO

Nationality *British* Builders' Name and No. of Ship *Midland S B*

Port of Registry *Montreal* *Co Ltd*

Official Number *153422* Owners *Canada S. S. Lines Ltd.*

Gross Tonnage *1665*

Date of Build *6/1927* Port and Date of Survey *Hamilton Ont. 5/1/38*

Particulars of Classification *B.S. & GREAT LAKES* Name of Surveyor *E. Russell Macmillan*

& RIVER ST. LAWRENCE. ✓ Names of Sister Ships *City of Hamilton*

Type of Superstructures *Forecastle (2 decks. package freighter)*

Trade of Ship

Service Endorsement if any

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (.....wood.....steel)					8'-2½"
TROPICAL FRESH WATER LINE above centre of disc					Corresponding Freeboard
FRESH WATER LINE	"	"	"	"	"
INTERMEDIATE TROPICAL LINE	BELOW	"	"	5"	8'-7½"
WINTER LINE	below	"	"	9½"	9'-0"
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

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

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

on the 23rd March 1938

~~Chief Surveyor~~
ASSISTANT CHIEF SURVEYOR

Secretary

COMPUTATION OF FREEBOARD

Length on summer load line 230' 0" Moulded Breadth 38' 0" Moulded Depth 23' 0" Depth of Keel

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

Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times .85} = .781$

Displacement and tons per inch immersion in salt water at summer load line

Moulded depth

Stringer Plate .42

Sheathing on exposed deck T $\left(\frac{L-S}{L}\right)$

Rise of floor (in sailers)

Depth for Freeboard (D)

Table Depth

Depth Correction

If restricted by superstructures

Deduction for Fresh Water $\frac{\Delta}{40 T} =$ inches

Round of Beam Correction

Ships Round of Beam

9.0 inches

Standard Round of Beam $\frac{B \times 12}{50}$

Difference

Restricted to

Correction $\frac{\text{Difference}}{4} \times \left(1 - \frac{E}{L}\right) =$

Standard Height of Superstructure

" " R.Q.D.

Percentage covered S/L =

" " E/L =

" " 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 =

Percentage from Table for Tankers (or Timber ships) =

Deduction =

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop						
Raised Quarter Deck						
Bridge		F				
		A				
Forecastle	36' 6"		7' 6"			
Trunk Aft						
" Forward						
Tonnage Opening Aft						
" " Forward						
Totals						

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product	Mean Actual sheer aft	Mean Actual sheer forward
A.P.	30.0			1		" Standard "	" Standard "
$\frac{1}{2}$ L from A.P.	13.0			4			
$\frac{1}{2}$ L from A.P.	3.5			2			
Amidships	-			4			
$\frac{1}{2}$ L from F.P.	5.5			2			
$\frac{1}{2}$ L " "	21.5			4			
F.P.	45.0			1			
				18			
Effective Mean Sheer							
Standard " "							
Difference							

TABULAR FREEBOARD corrected for flush deck if required =

Correction for co-efficient =

Depth correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for thickness of deck amidships

Other corrections, scantlings, etc.

Summer Freeboard in inches

Additional allowance for superstructures on

Timber carrying ships

Summer Timber Freeboard in inches

DRAUGHTS AND SEASONAL CORRECTIONS

Depth to Freeboard Deck in feet

Summer Freeboard in feet

Moulded Draught (d)

Addition for Keel

Extreme draught

Deduction for Tropical and addition for Winter freeboard $d/4 =$ ins.

Addition for Winter North Atlantic (if required) = ins.

Deduction for Tropical Timber Freeboard $\frac{d}{4} =$ ins.Addition for Winter " " $\frac{d}{4} =$ ins.

" " N.A. Timber Freeboard (if required) = ins.

PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Number and description of Hatchway from forward

Dimensions of Hatchway

Height of steel { deck above

Thickness { sides ends

Stiffeners

Brackets or Stays

Number

Spacing

Scantling and Sketch

Bearing Surface and thickness of carriers or sockets

Number

Spacing

Unsupported lengths

Scantling and Sketch

Bearing Surface and thickness of carriers or sockets

Material

Thickness

How Fitted

Bearing Surface

Spacing of Cleats

Number of Tarpaulins

Are tarpaulins in good condition and in accordance with rule requirements?

Are lashings provided in accordance with rule requirements?

Are battens and wedges efficient and in good condition?

Are wood fasteners steel shod at all bearing surfaces?

Are battens and wedges efficient and in good condition?

2 (Salmon hatch)

As. 1

"

"

"

"

As. 1

"

"

"

"

As. 1

"

"

"

"

"

"

"

"

"

"

"

"

"

1 1/2

8' x 24'

9" B.A.

9 x 3/2 x 14 1/2 BA

None

None

1

4' 0"

7 x 7 wood

(fitted in sections between fore & afters)

3 1/2 x 3 1/2 x 5

2

8' 0"

7 1/2 x 3 x 3 1/8

12 x 3 1/8

3 1/2 x 3 1/2 x 50

wood

2 1/2"

F. & A.

3 (x 3 x 3 1/8)

24"

2

2

2

2

2

2

2

COAMINGS

HATCH BEAMS

FORE AND AFTERS

HATCH COVERS

TARP

No exposed deck seats or hatches.

Hatch beams are not always used (hard to be removed from No 2 hatch when elevator fitted) Would suggest that vessel be considered as having 8 ft hatches without hatch beams - penalty being included in present provisional freeboard. Etkin

Securing bars - 3 x 3 x 3/8 L - one athwartship each hatch

Are wood fasteners steel shod at all bearing surfaces? Yes.

Are battens and wedges efficient and in good condition? Yes.

Are tarpaulins in good condition and in accordance with rule requirements? Yes

Are lashings provided in accordance with rule requirements? - Securing bars fitted.

Give full particulars of the following:—

Fiddle, Funnel and Vent Coamings, Engine Room skylight and other openings ^{on deckhouse} 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)

Fiddles - 3" coamings - hinged steel covers.

Ex B. Vents have high coamings.

Engine Room skylight - steel

Bunker hatch - 4" B.A. coaming; 2 1/2" wood covers, 8ft long; rest bars 3"; 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.

Hawsepipes (windlass inside forecastle) - steel covers on inboard ends.

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 SD M. Vents to forecastle accommodation)

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

Airpipes on freeboard deck - 9" high. S.N.

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

All W.C. &c. discharges from forecastle (above freeboard deck) have clapper valves on outlets.

All W.C. &c. discharges from after deckhouse have clapper valves on outlets.

There are no overboard discharges from spaces below the freeboard deck, either forward or aft. (tween deck scuppers are led to bilges).

Culchum - cover on hopper & hinged steel 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)

Forecastle side scuttles have hinged metal covers.

Forecastle bulkhead - 12" airports have no covers.

Engine Room - no side 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)

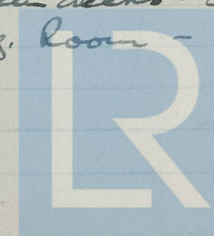
Open rails - 2 tier rod (or wire) all around freeboard deck, forward of bulwark aft - portable in way of hatches.

Gangways and Lifelines

Lifelines to be fitted.

Gangway, Cargo and Coaling Ports in sides of ship

3 Gangway doors, P.S. in tween decks - as originally fitted.
1 " " " in Eng. Room -



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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

2 Decks - package freighter

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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CONDITIONS OF ASSIGNMENT

SHIPS NAME *"CITY OF MONTREAL"* OFFICIAL NUMBER *153422*
 Nationality and Port of Registry *BRITISH MONTREAL*

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								
Trunk, Aft								
" Forward								
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								
Deckhouses on Flush Deck ships								

As originally fitted (wood lined)
30. 5 x 3 x 38 30"
as originally fitted.

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

Poop Bulkhead	
R.Q.D. "	
Bridge Aft Bulkhead	
" Forward "	
Forecastle Bulkhead	
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	

2 doors - 59 x 27 x 1/4 steel - 16" coamings
Engine Casing - inside house - steel
Stokehold Ent. P.S. - 62 x 24 x 1/4 - 16" coamings (no inner door)
Eng. Room Ent. - 62 x 24 x 1 3/4 solid wood door - 17" sill; open stairway
inside to Eng. room - no cover
Accomd. doors - 62 x 24 x 1 3/4 solid wood - 17" sills.
no fantail entrance.

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					

36" bulwark (no freeing ports) round stern in way of deckhouse (open rails elsewhere)

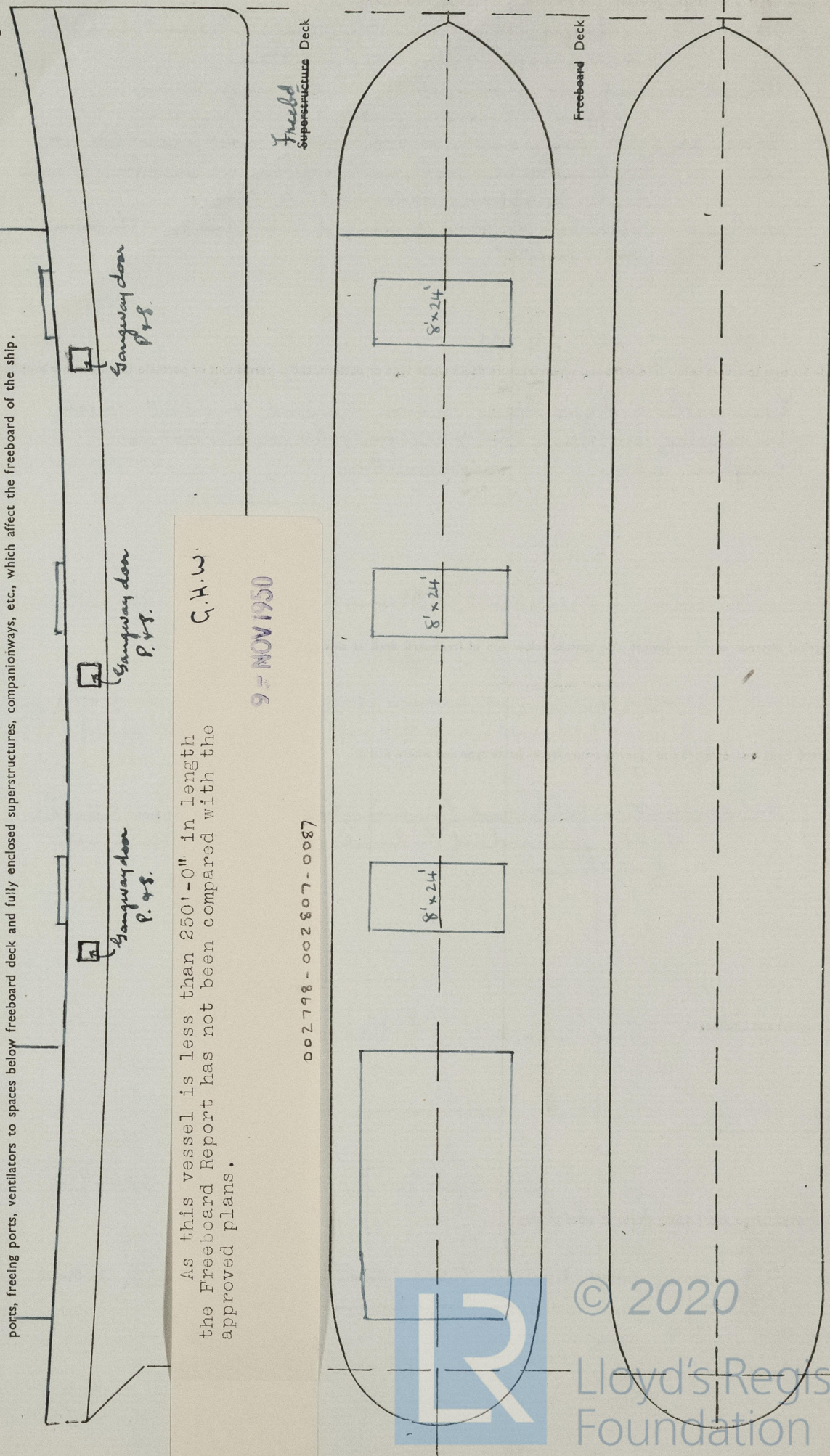
State fore and aft position and height above
 deck to bottom of port, for each port

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

Position and dimensions of superstructure decks, position of superstructure bulkheads and openings, extent and thickness of wood sheathing in wells, position of cargo and coaling hatchways, gangway, cargo and coaling ports, freeing ports, ventilators to spaces below freeboard deck and fully enclosed superstructures, companionways, etc., which affect the freeboard of the ship.



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

C.H.W.

9 - NOV 1950

002798-002807-0087



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Nationality and Port of Registry BRITISH MONTREAL

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	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								
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	
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	
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					

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

Position and dimensions of superstructure decks, position of superstructure bulkheads and openings, extent and thickness of wood sheathing in wells, position of cargo and coaling hatchways, gangway, cargo and coaling ports, freeing ports, ventilators to spaces below freeboard deck and fully enclosed superstructures, companionways, etc., which affect the freeboard of the ship.

