

1359.

Form LL. 4.C. (Revised)

# THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

## SURVEY FOR FREEBOARD

STEAMER, TANKER, SAILER :..... "CITY OF KINGSTON"..... WITH TIMBER DECK CARGO  
WITHOUT

Nationality *British* Builders' Name and No. of Ship *Davie S B & Ry Co Ltd*

Port of Registry *Montreal*

Official Number *152837* Owners *Canada S. S. Lines Ltd*

Gross Tonnage *1690*

Date of Build *4/1926* Port and Date of Survey *Hamilton Ont. 12/4/37*

Name of Surveyor *E. Russell Macmillan*

Particulars of Classification *B. S. \* GREAT LAKES* Names of Sister Ships *City of Toronto*

*4 RIVER ST. LAWRENCE.*

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'-2 1/2"
TROPICAL FRESH WATER LINE above centre of disc	Corresponding Freeboard
FRESH WATER LINE " " "	" "
INTERMEDIATE TROPICAL LINE <i>below</i> " " <i>5"</i>	" " 8'-7 1/2"
WINTER LINE <i>below</i> " " <i>9 1/2"</i>	" " 9'-0"
WINTER NORTH ATLANTIC LINE " " "	" "

SUMMER TIMBER FREEBOARD recommended amidships from top of deck line	Corresponding Freeboard
TROPICAL FRESH WATER Timber line above L.S.	
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 *23<sup>rd</sup> March 1938*



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Chief Surveyor

ASSISTANT CHIEF SURVEYOR

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002853-002857-0094 1/2



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

002853-002857-0094 <sup>2</sup>/<sub>12</sub>

28 SEP 1950

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## COMPUTATION OF FREEBOARD

Length on summer load line 230'-0" Moulded Breadth 33'-0" Moulded Depth 23'-0" Depth of Keel Tons

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

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 23'-0" Deduction for Fresh Water  $\frac{\Delta}{40 T} =$  inches

Stringer Plate .42 Round of Beam Correction

Sheathing on exposed deck T  $\left(\frac{L-S}{L}\right)$  Ships Round of Beam 9.6 inches

Rise of floor (in sailers)

Depth for Freeboard (D)

Table Depth

Depth Correction

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	26.5		9'-6"			
Trunk Aft						
" Forward						
Tonnage Opening Aft						
" Forward						
Totals						

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.	20.0			1	
1/2 L from A.P.	13.0			4	
1/4 L from A.P.	3.5			2	
Amidships	-			4	
1/4 L from F.P.	5.5			2	
1/2 L " "	21.5			4	
F.P.	45.0			1	
				18	

Effective Mean Sheer =

Standard " " .05L + 5 =

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

	Sailer, Tanker, Steamer	Timber
Depth to Freeboard Deck in feet		
Summer Freeboard in feet		
Moulded Draught (d)		(d1)
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.

Form LL. 4.D.

# THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

## SURVEY FOR FREEBOARD

### CONDITIONS OF ASSIGNMENT

SHIPS NAME "CITY OF KINGSTON" OFFICIAL NUMBER 152837

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								

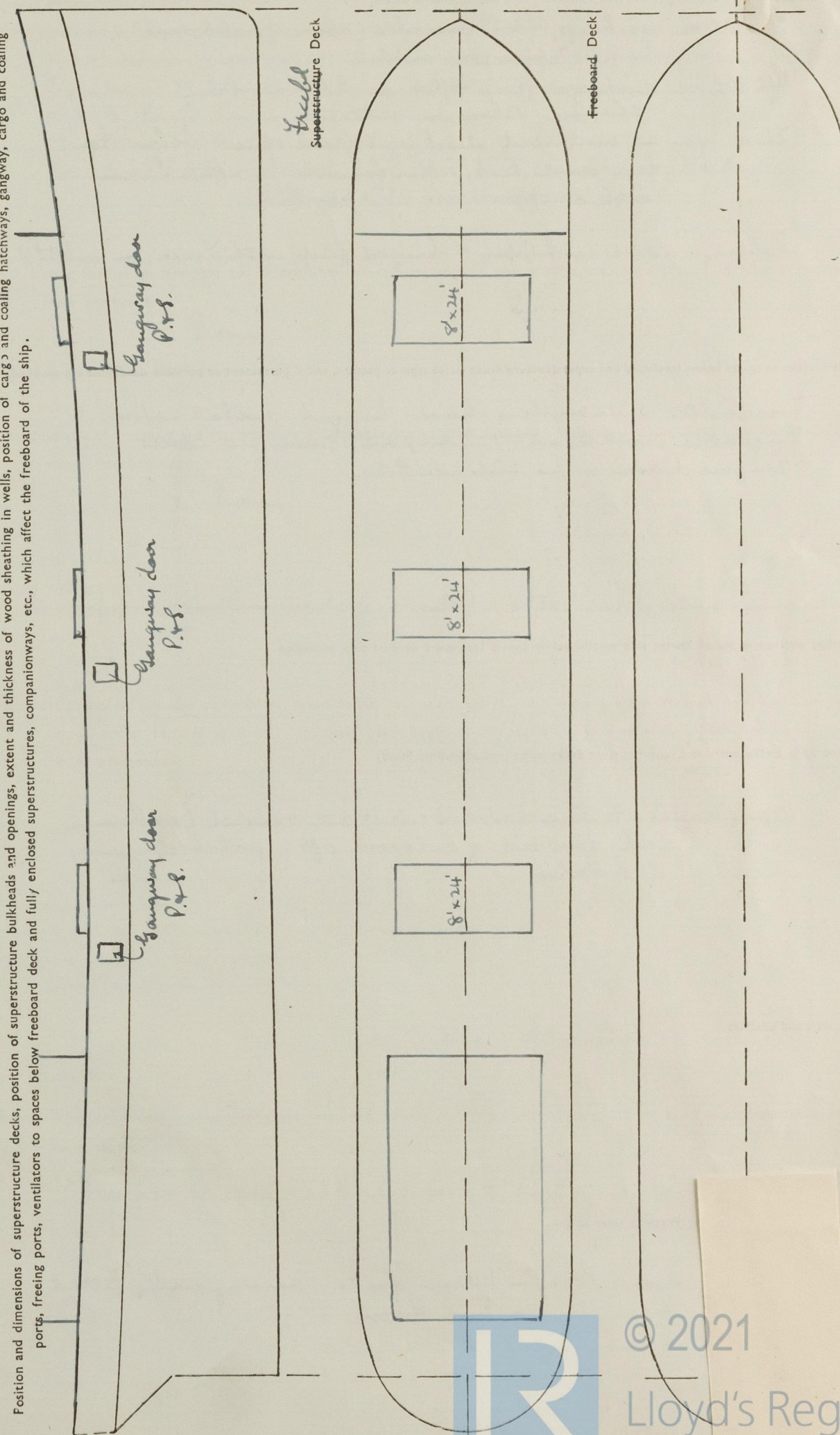
## PARTICULARS OF CLOSING APPLIANCES (state if capable of being manipulated from both sides)

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	

## 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 ports, freeing ports, ventilators to spaces below freeboard deck and fully enclosed superstructures, companionways, etc., which affect the freeboard of the ship.



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1359

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

Stringer Plate      Round of Beam Correction

Rise of floor (in sailers)	Standard Round of Beam	$\frac{B \times 12}{50}$
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Rise of floor (in culvert)		50
Depth for Freeboard (D)	Difference	

Restricted to

Table Depth

restricted to

Correction Difference  $\times (1 - E) =$

Depth Correction  $\frac{1}{4} \times (1 - L)$

Effective Year	S.M.	Product	Mean Actual she ,, Standard	Mean Actual she ,, Standard	Length of enclos	Length of enclo	Sheer Correctio
	1						
	4						
	2						
	4						
	2						
	4						
	1						
	18						

Effective Mean Shear	=	$\frac{2L}{3}$	=
Standard " " .05L + 5	=		
Difference			
		If limited on account of midship superstructure	=
		" to maximum allowance of 1½ ins. per 100 ft.	=

	+	-
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	=	Addition for Winter North Atlantic (if required)	=	ins.
Additional allowance for superstructures on		Deduction for Tropical Timber Freeboard $\frac{d}{d}$	=	ins.
Timber carrying ships	=	Addition for Winter " " $\frac{d}{3}$	=	ins.
Summer Timber Freeboard in inches	=	" " N.A. Timber Freeboard (if required)	=	ins.

Number and description of Hatchway from forward	1 x 3. 8' x 24'	2 (Elevator hatch) As 1	2
Dimensions of Hatchway	9"	"	"
Height of steel above wood	9"	"	"
Thickness of sides	9 x 3 1/2 x 14 1/2 BA.	"	"
Stiffeners	None	"	"
Brackets or Stays	None	"	"
Number	1	None	"
Spacing	14' 0"	"	"
Scantling and Sketch	7 x 7 wood (in sections between fore rafters)	"	"
Bearing Surface and thickness of carriers or sockets	3 1/2 x 3 1/2 x 5	"	"
Number	2	None	"
Spacing	8' 0"	"	"
Unsupported lengths	"	"	"
Scantling and Sketch	7 1/2 x 3 x 3 1/8 12 x 3 1/8	"	"
Bearing Surface and thickness of carriers or sockets	3 1/2 x 3 1/2 x 50	"	"
Material	Wood	As 1.	"
Thickness	2 1/2"	"	"
How Fitted	F & A	"	"
Bearing Surface	3"	"	"
Spacing of Cleats	24"	"	"
Number of Tarpaulins	2	"	"

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 ~~beams~~ <sup>beams</sup> and ~~after~~ <sup>after</sup> steel shod at all bearing surfaces? **Yes**

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

no exposed deck scuttle hatches.

Hatch beams are not always used. (had to be removed from N°2 batch, when elevation fitted)

Would suggest that vessel be considered as having 8 d/s hatches without hatch-beams - penalty levied included in present provisional freightboard.

224

Are wood <sup>bearings</sup> ~~bore~~ and ~~affers~~ 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:—

Fiddley, Funnel and Vent Coamings, Engine Room skylight and other openings <sup>on deckhouse</sup> in Machinery Casings tops and their means of closing (state height of coamings, type of fiddley covers, and if these are permanently attached in their proper positions)

Fiddleys - 3" Coamings - hinged steel covers.

E. & B. Vents have high coamings.

Eng. Room skylight - steel.

Bunker hatch - 9" P.A. coamings; 2 1/2" wood covers 8ft long; 3" rest bars; cleats @ 4" 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 S.D.M. Vents 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)

Freeboard deck - S.N. Airpipes - 9" high.

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

All W.C. &c. discharges from forecastle (above freeboard deck) have clappers 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. Two deck scuppers are led to bilges.

Ashgun - 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)

Forecastle side scuttles have hinged metal covers.  
Forecastle Bulkhead - 12" airports have no covers.  
Longue 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 Tia 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.A. in tween decks - as originally fitted  
1 " " " in Eng. Room - " " "

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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