

252'-0" x 43'-0" x 25'-6"

1597

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

SURVEY FOR FREEBOARD

STEAMER, TANKER, SAILER: "GLENELG" SS 3670 ~~WITH~~ WITHOUT TIMBER DECK CARGO

Nationality *British* Builders' Name and No. of Ship *Midland Shipbuilding Co., Midland, Ontario - No 11.*

Port of Registry *Midland* ✓ Owners *Canada S. S. Lines.*

Official Number *150234* ✓

Gross Tonnage *2099* ✓

Date of Build *6/1923.* Port and Date of Survey *Windsor, Ont.: March 16th 1938*

Particulars of Classification *B.S. [Great Lakes RIVER. & limited part of St. Lawrence]* Name of Surveyor *E. Russell Macmillan*

Type of Superstructures *Forecastle. (Sunke)* Names of Sister Ships ✓

Trade of Ship *✓ LAKES & RIVERS.*

Service Endorsement if any

Lakes & Rivers
Beans O.K. (for Service?)

SPECIAL FREEBOARD

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (.....wood.....steel)

7'-7" ✓

TROPICAL FRESH WATER LINE above centre of disc

Corresponding Freeboard

FRESH WATER LINE

" " "

" "

INTERMEDIATE TROPICAL LINE

BELOW " " 4 1/2"

" "

7'-11 1/2"

WINTER LINE

below " " 9"

" "

8'-4"

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

issue same as provisional

Docked - 25th August 1936.

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

Chief Surveyor

ASSISTANT CHIEF SURVEYOR

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

on the

3rd May 1939



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Assistant Secretary

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219

LAKEE

COMPUTATION OF FREEBOARD

Length on summer load line 252'-0" Moulded Breadth 43'-0" Moulded Depth 25'-6" Depth of Keel
Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth
Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times .85} = .83$ GIVEN BY OWNERS
Displacement and tons per inch immersion in salt water at summer load line
Moulded depth 25.5 Deduction for Fresh Water $\frac{\Delta}{40 T} =$ inches
Stringer Plate .625 .052 Round of Beam Correction
Sheathing on exposed deck T $\left(\frac{L-S}{L}\right)$ Ships Round of Beam 10 inches
Rise of floor (in sailers) Standard Round of Beam $\frac{B \times 12}{50} = 10.32$
Depth for Freeboard (D) 25.552 Difference .32
Table Depth 16.800 Restricted to
Depth Correction 8.752 Correction $\frac{\text{Difference}}{4} \times \left(1 - \frac{E}{L}\right) = .08 \times .8611 = .069$ ON.
If restricted by superstructures $\frac{252}{130} = 16.96$

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop						
Raised Quarter Deck						
Bridge		F				
		A				
Forecastle	35'	-	5' (Sink)	50%	6.02	29.07
Trunk Aft						
" Forward						
Tonnage Opening Aft						
" " Forward						
Totals				35.0		29.07

Standard Height of Superstructure 6-02
" " R.Q.D.
Percentage covered S/L = 13.89
" " E/L = 11.54
" from Table line A, B, (corrected for absence of forecastle if required) 5.77
Percentage from Table by interpolation for Bridge less than .2L if required =
Deduction = $31.2 \times .0577 = 1.80$ OFF
Percentage from Table for Tankers (or Timber ships) =
Deduction =

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.	32	35.2		1	32.0
$\frac{1}{8}$ L from A.P.	12			4	48.0
$\frac{1}{8}$ L from A.P.	2		As	2	4.0
Amidships	-		ACTUAL	4	-
$\frac{1}{8}$ L from F.P.	12			2	24.0
$\frac{1}{8}$ L " "	32			4	128.0
F.P.	61	70.4		1	61.0
				18	297.0
Effective Mean Sheer					16.500
Standard " " .05L + 5					17.600
Difference					1.1

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 $\times \left(75 - \frac{S}{2L}\right) = 1.1 + .6806 = .75$ ON.
If limited on account of midship superstructure =
" to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft. =

TABULAR FREEBOARD corrected for flush deck if required = 30.28
Correction for co-efficient = $\frac{15}{136} = 33.62$

	+	-
Depth correction	16.96	
Deduction for superstructures		1.80
Sheer correction	.75	
Round of Beam correction	.07	
Correction for thickness of deck amidships		
Other corrections, scantlings, etc.	41.40	
	39.18	1.80
		57.38

DRAUGHTS AND SEASONAL CORRECTIONS
Sailer, Tanker, Steamer Timber
Depth to Freeboard Deck in feet 25.552
Summer Freeboard in feet 7.583
Moulded Draught (d) 17.969 (d1)
Addition for Keel .092
Extreme draught 18.061
Deduction for Tropical and addition for Winter freeboard $d/4 = 4.49$ ins.
Addition for Winter North Atlantic (if required) $\frac{1}{2} = .898$ ins.
Deduction for Tropical Timber Freeboard $\frac{d1}{4} =$ ins.
Addition for Winter " " $\frac{d1}{3} =$ ins.
" " N.A. Timber Freeboard (if required) = ins.

Summer Freeboard in inches 5. 7'-7" = 91.00
Additional allowance for superstructures on
Timber carrying ships $I + 4\frac{1}{2} = 7'-11\frac{1}{2}"$
Summer Timber Freeboard in inches $W + 9" = 8'-4"$
MIN: LAKE FREEBOARD = 49.60"

THE ABOVE MARKS ASSIGNED IN ORDER TO AGREE WITH PROVISIONAL MARKS ASSIGNED

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								
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 aft								

As originally constructed

*1/4" 4 x 3 x 5/16 24 overlaps.
Supported by F & A bldgs inside*

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	
Deckhouse aft	
Machinery Casings within super- structures not fitted with Cl. 1 Closing Appliances	
Deck houses on Flush Deck ships	

2 doors - 61" x 24" x 1 3/16" solid - 17" sills.

Engine Casings - steel (inside deckhouse)

Stokehold Ent. - One door (house front) 62" x 24" x 1/4" - 16" sill.

Engine Room Ent. - One door - 61" x 24" x 1 3/4" solid wood - Stairway

inside to Eng. Room - has hinged steel cover - angle coaming

Fantail Entrance - Similar to Eng. Room Entrance. (16" sill)

Access - 2 doors - 61" x 24" x 1 3/4" solid wood - 16" sills.

All doors open from both sides.

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					

None - open rails all around freeboard deck.

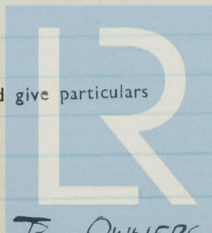
State fore and aft position and height above
deck to bottom of port, for each port

After Well

Forward Well

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

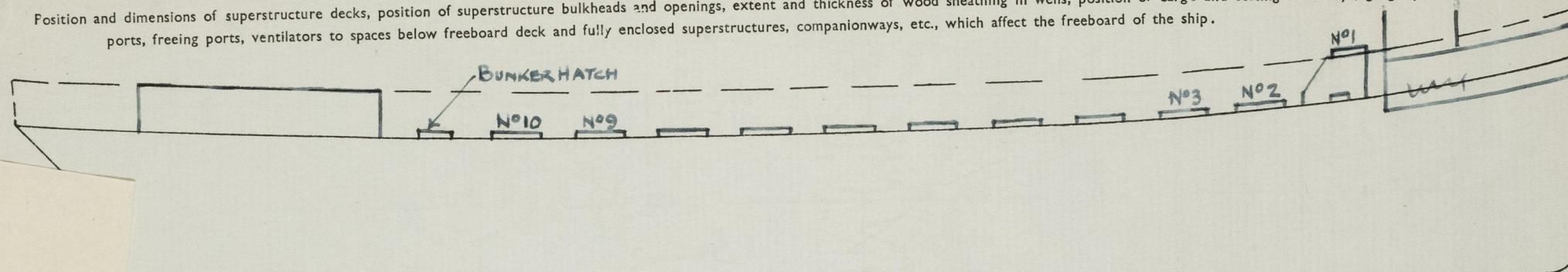
Give particulars of freeing port area, etc., on superstructure decks



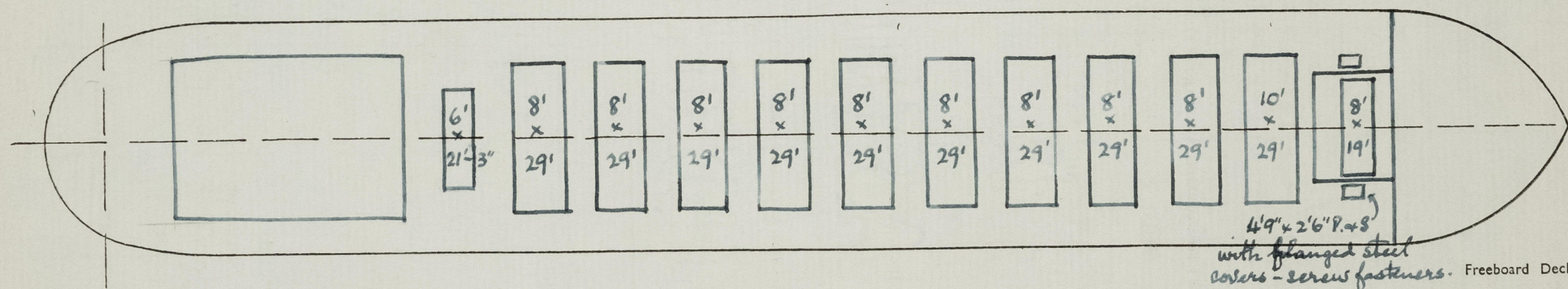
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Position and dimensions of superstructure decks, position of superstructure bulkheads and openings, extent and thickness of wood sheathing in wells, position of cargo and coaling hatchways, gangway, cargo and coaling ports, freeing ports, ventilators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



Superstructure Deck



Freeboard Deck



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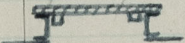
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The Freeboard Report has been compared with the
approved plans and found in order.

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PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Number and description of Hatchway from forward		Nº 1	Nº 2	3 To 10	11. (Bunker)						
Dimensions of Hatchway		8' x 19'	10' x 29'	8' x 29'	6' x 24' 3"						
COAMINGS	Height { steel { deck above } wood {	10"	10"	10"	10"						
	Thickness { sides ends	10 Channel	As 1	As 1	As 1						
	Stiffeners	None	"	"	"						
	Brackets or Stays	None	"	"	"						
HATCH BEAMS	Number	None	One.	None							
	Spacing		5'-0"								
	Scantling and Sketch		7 1/2 x 7 1/2 wood.		"						
Bearing Surface and thickness of carriers or sockets		✓	3" x 3" x 3/8"	✓							
FORE AND AFTERS	Number	None	2.	None							
	Spacing		9'-8"								
	Unsupported lengths										
	Scantling and Sketch		1/2" 3" x 3" x 3/4 10" x 1 1/2" 1/2" 4" x 3" x 3/8		"						
Bearing Surface and thickness of carriers or sockets		✓	3 x 3 x 3/8	✓							
HATCH COVERS	Material	Wood.	As 1	As 1	"						
	Thickness	2 3/4"	"	"	"						
	How Fitted	F & A.	"	"	"						
	Bearing Surface		"	"	"						
Spacing of Cleats		About 27"	"	"	"						
Number of Tarpaulins		One	"	"	"						
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 fore and afters steel shod at all bearing surfaces?		✓									
Are battens and wedges efficient and in good condition?		Yes.									

Securing bars. - 2 1/2 x 2 1/2 x 1/4 or 3 1/2 x 3 1/2 x 5/16 - two
athwartship Nos 1 to 10 hatches;
one athwartship No 11 hatch.

Give full particulars of the following:—

on deckhouse

Fiddle, 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 fiddle covers, and if these are permanently attached in their proper positions)

Fiddles - none.

Funnel - riveted direct to plating - no coaming

E & B Vents have 30" Coamings

Engine Room skylight - steel.

Bunker hatch - shaft funnel - 12" plate coaming; 2 1/2" wood covers, left hand; 2 1/2" nests; cleats at about 30" - no securing bar

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)

Forecastle deck - 1 @ 16" diam. cowl - 33" Coaming - rivs. @ 4 1/2"

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

None.



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

Discharges forward from sunk deck)

Scuppers from store-room - led to fore peak
In Conveyor Gear Space - 1 WC each side - storm valves on outlets.
- 2 drains port & 1 drain starbl - non-return valves on outlets.

Discharges aft - from deckhouse. (none from main deck)

In Engine Room - Starbl - 3 WCs. (& drains) } outlets fitted with choppers
1 drain } or non-return valves.

Port - 3 drains - non-return valves on outlets.

Syphon - starbl side Eng. Room - globe valve on outlet

Ashgun - cover on hopper - sliding plate on outside of shell over 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 or portable metal covers.

Forecastle bulkhead - 14" airports have no covers, but are well protected

Engine Room - side scuttles have hinged metal covers.

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 deck - bulwark extends for $\frac{2}{3}$ length & fixed
rails for remainder

Freeboard deck - open rails - 2 tier rod or wire - all
around - portable in way of hatches.

Gangways and Lifelines

Lifelines to be fitted.

Gangway, Cargo and Coaling Ports in sides of ship

In Engine Room - Gangway door P.S. - each in 2 sections.
Good strong w.t. steel doors - as originally fitted.



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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

Self discharging collier with hopper side tanks

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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