

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT  
SURVEY FOR FREEBOARD

STEAMER, TANKER, SAILER: "CHARLES R. HUNTLEY" S.S. ~~WITH~~  
WITHOUT TIMBER DECK CARGO

Nationality British Builders' Name and No. of Ship Hapier & Miller Ltd  
 Port of Registry Glasgow St. CATHARINES ONT. Old Kilpatrick No 255  
 Official Number 148898 Owners St. Lawrence Steamship Co Ltd Upper Lakes  
 Gross Tonnage 1760 & St. Lawrence Transportation Co. Ltd.  
 Date of Build 3/1926 Port and Date of Survey April 11th 1937  
 Name of Surveyor E. Russell Macmillan  
 Particulars of Classification B.S. (Great Lakes Limited Gulf of St. Lawrence Service) Names of Sister Ships "EDWIN T. DOUGLASS", "FRANK B. BAIRD", "JAMES STEWART", "JOHN B. RICHARDS", "NORMAN B. MACPHERSON", "WILLIAM C. WARREN"  
 Type of Superstructures  
 Trade of Ship Subs Forecastle

Service Endorsement if any AND ONLY SO LONG AS THE SHIP IS EMPLOYED IN GREAT LAKES & LIMITED GULF OF ST. LAWRENCE SERVICE. & NEWFOUNDLAND SERVICE.

| SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (.....wood.....steel) |       |   |      | 4'-7"                   |
|---|-------|---|------|-------------------------|
| 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 |   |   |         | Corresponding Freeboard |
|---|---|---|---------|-------------------------|
| 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

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 Lloyd's Register Foundation Secretary

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

on the 11th January 1939

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INTERNATIONAL

COMPUTATION OF FREEBOARD

Length on summer load line 253'0" Moulded Breadth 43'1" Moulded Depth 20'0" 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  $\frac{\Delta \times 35}{L \times B \times D \times .85} = .84$

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

Moulded depth 20.0 Deduction for Fresh Water  $\frac{\Delta}{40 T} =$  inches

Stringer Plate 84" x .60 .05 Round of Beam Correction

Sheathing on exposed deck T  $(\frac{L-S}{L})$  - Ships Round of Beam 11.0 inches

Rise of floor (in sailers) - Standard Round of Beam  $\frac{B \times 12}{50} = 10.34$

Depth for Freeboard (D) 20.05 Difference .66

Table Depth  $\frac{45}{130} \times 16.867 = 3.183$  Restricted to Correction

Depth Correction  $\frac{45}{130} \times 3.183 = 1.061$  Difference  $\frac{1-E}{4} \times (1-\frac{E}{L}) = .165 \times .8597 = .142$  OFF

If restricted by superstructures 6.195 ON

Table with columns: Enclosed Length, Length of Overhang, Height, Mean Covered Length (S), Height Correction, Effective Length (E). Rows include Poop, Raised Quarter Deck, Bridge, Forecastle, Trunk Aft, Tonnage Opening Aft, and Totals.

Standard Height of Superstructure 6.03'
Percentage covered S/L = 14.03
Percentage from Table by interpolation for Bridge less than 2L if required = -
Deduction = 31.3 x .05235 = 1.639
Percentage from Table for Tankers (or Timber ships) =

Table with columns: Station, Actual Sheer, Standard Sheer, Effective Sheer, S.M., Product. Rows include A.P., L from A.P., Amidships, L from F.P., F.P., and Effective Mean Sheer.

Mean Actual sheer aft = less than 1
Mean Actual sheer forward = less than 1
Length of enclosed superstructure forward of amidships = Length of Ship
Length of enclosed superstructure aft of amidships = Length of Ship
Sheer Correction = Difference X (.75 - S/2L) = 15.094 x .6798 = 10.26 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 = 1.52/1.36 = 36.80

Table with columns: +, -, Depth correction, Deduction for superstructures, Sheer correction, Round of Beam correction, Correction for thickness of deck amidships, Other corrections, scantlings, etc. + LOW COAMINGS.

DRAUGHTS AND SEASONAL CORRECTIONS

Table with columns: Sailer, Tanker, Steamer, Timber, 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 = 3.867 ins.

Summer Freeboard in inches = 55.00
Additional allowance for superstructures on Timber carrying ships T = 51.133
Summer Timber Freeboard in inches W. = 58.867
Addition for Winter North Atlantic (if required) = ins.
Deduction for Tropical Timber Freeboard d1/d = ins.
Addition for Winter N.A. Timber Freeboard (if required) = ins.

MIN. INT. FREEBOARD = 51.48" STRENGTH FREEBOARD 4'6" 0151 2/9

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

Table with columns: Coaming, Plating, Stiffeners, Spacing, End Attachments, No. and size of Openings, Height of Sills, Height of Casings. Rows include Poop Bulkhead, R.Q.D., Bridge Aft Bulkhead, Forecastle Bulkhead, Trunk, Aft, Exposed Machinery Casings on Freeboard or 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)

Table with columns: Station, Particulars. Rows include Poop Bulkhead, R.Q.D., Bridge Aft Bulkhead, Forecastle Bulkhead, Exposed Machinery Casings on Freeboard or R.Q. Deck, 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

Table with columns: Length of Bulwark, Height of Bulwark, No. and size of Freeing Ports each side, Area each side, Rule Area. Rows include After Well, Forward Well.

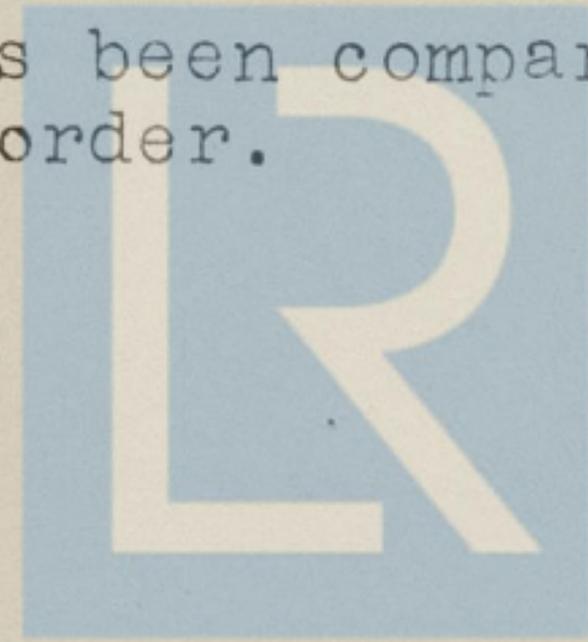
State fore and aft position and height above deck to bottom of port, for each port After Well Forward Well

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

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



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



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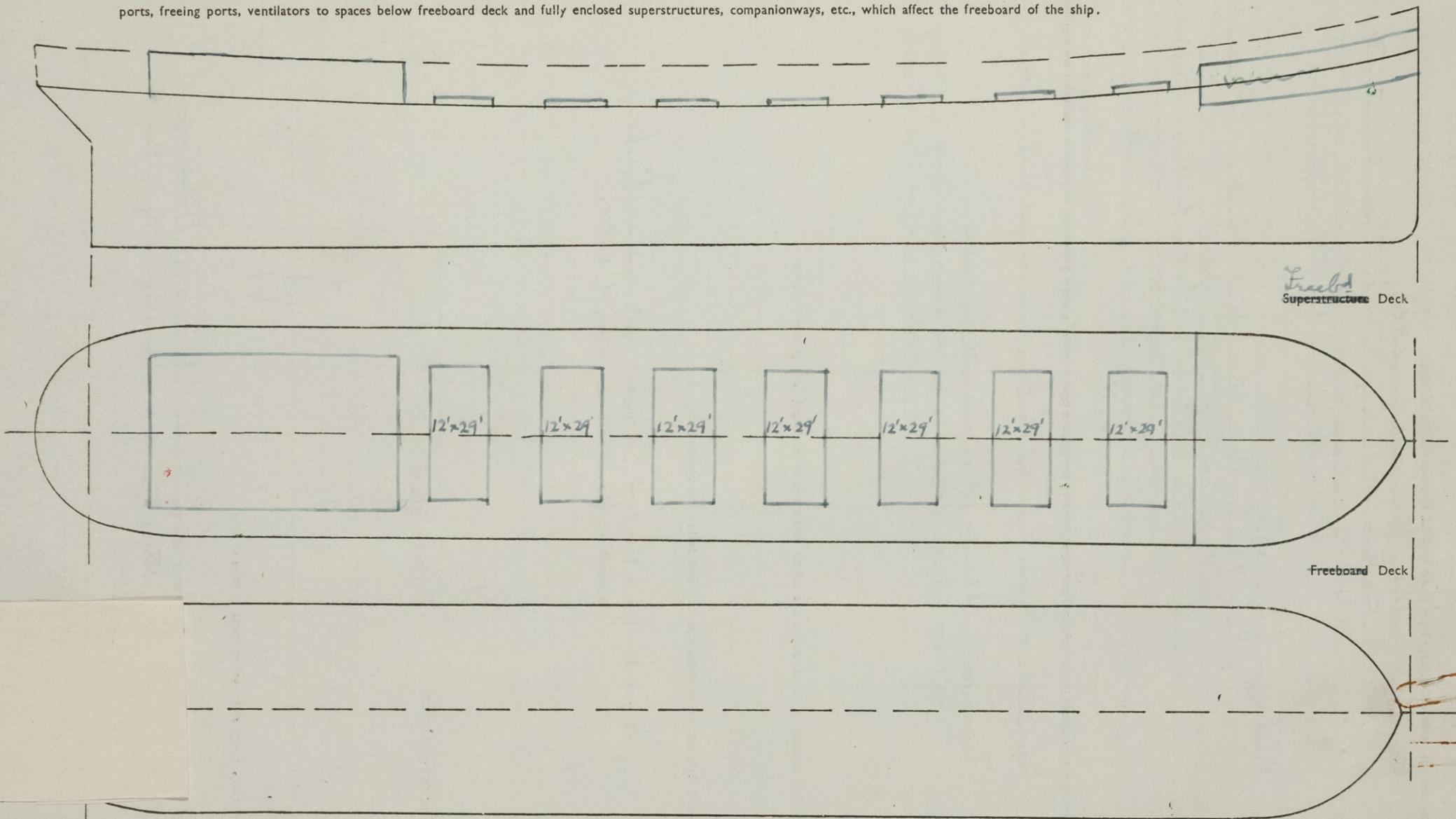
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Position and dimensions of superstructure decks, position of superstructure bulkheads and openings, extent and thickness of wood sheathing in wells, position of cargo and coaling hatchways, gangway, cargo and coaling ports, freeing ports, ventilators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



PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

| Number and description of Hatchway from forward      | 1, 2, 3 & 4  | 5, 6 & 7   |                                   |               |  |  |  |  |  |
|--|--|--|-----------------------------------|---------------|--|--|--|--|--|
| Dimensions of Hatchway                               | 12' x 29'  | 12' x 29'  |                                   |               |  |  |  |  |  |
| COAMINGS   | Height above steel deck                              | 9"   | 12"                               |               |  |  |  |  |  |
|  | Thickness sides                                      | 9 x 3/2 x 1/4 B.A.   | 12 x 3/2 x 5 B.A.                 |               |  |  |  |  |  |
|  | Stiffeners   | None   | None                              |               |  |  |  |  |  |
|  | Brackets or Stays                                    | None   | None                              |               |  |  |  |  |  |
| HATCH BEAMS  | Number   | 1  | As 1                              |               |  |  |  |  |  |
|  | Spacing  | 6' 0"  | "                                 |               |  |  |  |  |  |
|  | Scantling and Sketch                                 | 7" x 7" wood<br>9" x 9"  | 7" x 7" wood                      |               |  |  |  |  |  |
|  | Bearing Surface and thickness of carriers or sockets | 3"   | 3"                                |               |  |  |  |  |  |
| FORE AND AFTERS                                      | Number   | 3  | As 1                              |               |  |  |  |  |  |
|  | Spacing  | 7' 3"  | "                                 |               |  |  |  |  |  |
|  | Unsupported lengths                                  |  |                                   |               |  |  |  |  |  |
|  | Scantling and Sketch                                 | 1 @ centre<br>I 3 1/2 x 3 1/2 x 6<br>I 4 x 3 1/2 x 6 B.A.<br>I 4 x 4 1/4 x 5 1/2 each side | 1 @ centre<br>I 5 x 5 1/2 x 12-9" | (all HATCHES) |  |  |  |  |  |
| 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"   | "                                 |               |  |  |  |  |  |
| Spacing of Cleats                                    | 24   | "  |                                   |               |  |  |  |  |  |
| Number of Tarpaulins                                 | 2  | "  |                                   |               |  |  |  |  |  |

Deck scuttles hatch - 9" B.A. coaming wood covers, cleats etc. in order

Securing bars - 3" x 1/2" flat - 2 athwartship each hatch  
3 ADDITIONAL FORE & AFT SECURING BARS FITTED AT EACH HATCH  
EXISTING ATHWARTSHIP ANGLE REPLACED BY 2 - 3" x 3" ANGLES

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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 <sup>beams</sup> fore and afters steel shod at all bearing surfaces? *yes.*  
Are battens and wedges efficient and in good condition? *yes.*

Give full particulars of the following:—

Fiddle, Funnel and Vent Coamings, Engine Room skylight and other openings in <sup>on deckhouse</sup> 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 coaming - 16"  
Eng. Room have high coamings.  
Eng. Room skylight - steel.  
Bunker hatch - 4 1/8" plate coaming - 2 3/4 wood covers - cleats @ 24"

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

None

Escape Scuttle hatch on forecabin deck - 21" dia; C.I. cover bayonet joint.

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)

Forecabin dk - 9" x 6" Cowl Vents - 2 1/2" Coaming (rivs @ 3 1/2") plugs & covers provided.

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

Forecabin deck - S.N. Airpipes - 21" high  
Freeboard deck - " " - 8" high amidships  
" " - " " - 20" " aft

Closing appliances provided ✓

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

Discharges forward (from sunk forecabin)  
In Fore Peak - WC discharge port side - clapper valve on outlet.  
No. 1 hold - 2 discharges port & starboard - outlets, about 2 ft below sunk deck - fitted with clapper valves.

Discharges from after deckhouse  
WCs - 1 on Eng. Room star; 1 in port bunker - both outlets fitted with clapper valves.  
Drains - 2 in Eng. Room; 1 in port bunker - clapper valves on all outlets.  
Ashpan - hinged 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)

Forecabin & Engine Room side scuttles have hinged metal covers.

Forecabin Bulkhead - 10" airports with no covers.

1/4" PLATE COVERS FITTED TO AFTER & FORWARD CABINS. 9/16/42

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 - portable in way of hatches.

Gangways and Lifelines

Life lines fitted. be 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.

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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

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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