

TUE DEC 2 1920

Index No. **29624**
(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

PARTICULARS RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH TOP GALLANT FORECASTLES, SHORT POOPS AND BRIDGE HOUSES DISCONNECTED, OR WITH TOP GALLANT FORECASTLES HAVING LONG POOPS, OR RAISED QUARTER DECKS CONNECTED WITH BRIDGE HOUSES, OR OTHERWISE.

Port of Survey MontrealDate of Survey Oct. 20. 1920Name of Surveyor H. J. Alderson

Particulars of Classification.

4100A1 Class Condensed

Ship's Name.

S.S. CANADIAN COMMANDERHull No 79

Number in Register Book

Port of Registry and Nationality.

Montreal
Can.

Official Number.

141 832

Gross Tonnage.

5400

Date of Build.

1920

Moulded Depth as measured.....

LENGTH.

400.0

BREADTH.

52.4

DEPTH.

28.5

UNDER DECK TONNAGE.

4860.53

Leath on LOOLINE.

399' 5"

Frame Depth

9 1/2"

Ceiling

None

Peak

included

CORRECTED DIMENSIONS.

399.4251.8229.994860.53

Coefficient of fineness.....

.78

Amendment necessary

C. 9.8

Para. 4 (a) to (e)*

.76

Coefficient as corrected.....

.76

Stem..... 10' 5 1/4" 15' 1 1/4" $\div 2 = 7' 11 1/8"$ Mean

Stem at 1/3 of the length from Sternpost..... 5' 10 3/4" 8' 4" $\div 2 = 4' 3 1/2"$ Mean

Actual mean Sheer..... 93.63 $\div 55 = 93.63$

Standard mean Sheer [Table, Para. 18]..... 49.94 Correction

Difference..... 43.69 $\div 4 = 10.92$

Limited as Para. 18 (f)..... -11"

Fall in Sheer { At front of bridge house..... 13"
from amidships {
[Para. 18 (e)] { At after end of forecastle..... 6' 8"

Fall in Sheer { No drop aft of midships
Para. 18 (d) { Measured on sheers from base line.
Length uncovered..... Correction

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C..... 4 - 10 1/2

Correction for Length, if required (Para. 12, 13, and 14)..... + 2

Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14)..... 4 - 5

Difference..... 2 - 4 1/2

Percentage as below..... 33.6%

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11)..... 9.61 - 9 1/2

Allowance for Deck Erections..... 9.61 - 9 1/2

	Length.	Length allowed.	Height.
Forecastle.....	<u>41' 3"</u>	<u>41.25</u>	<u>7' 11 1/2"</u>
Bridge House.....	<u>120' 2"</u>	<u>114.62</u>	<u>7' 11 1/2"</u>
Raised Qr. Dk.....			
Op.....	<u>49' 7"</u>	<u>49.58</u>	<u>7' 11 1/2"</u>
Total.....		<u>208.45</u>	<u>= .52</u>
Length of Ship.....		<u>399.42</u>	

Corresponding percentage (Para. 11, 12, 13, and 14)..... 33.6%

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, W (Iron) Deck:—

	Fresh Water Line	above centre of Disc
Indian Summer Line.....	"	"
Winter Line.....	"	"
Winter North Atlantic Line.....	"	"

State dimensions of freeing port area on back of this form.
The Surveyor should state whether the fall in sheer as reported is measured relatively to the straight line of keel or to the water line. If measured relatively to water line the vessel's draft at time of survey, and also the usual load draft forward and aft should be reported.

Moulded Depth as measured.....

31' 2 1/4"

Addition for Keel below base line for draught record..... inches.

CORRECTION FOR LENGTH.

Length of Ship on Loadline..... 399' 5" 42

Length in Table..... 394' 25

Difference..... 25.17

Correction for 10ft., Table A..... 1.6 Table C. .8

× Difference divided by 10..... 4.027 (if required.) 2.013

If 1/10ths length covered divide by 2..... + 4" + 2"

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered..... 52

Thickness of usual wood deck, less stringer..... 3 1/2 - 1 3/4"

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... 52' 2 1/2"

Round of Beam..... 13"

Normal round..... 13.05

Difference..... ✓ ÷ 2 =

Proportion of Deck uncovered (Para. 19).....

Freeboard, Table A..... 4 - 11.94 8' 0"

Correction for Sheer..... 10.92 - 11

Correction for Length..... 4 - 1.02 7.1

Correction for Length..... 4.03 + 4

Allowance for Deck Erections..... 4 - 5.05 7.5

Other Corrections (if any)..... 9.61 - 9 1/2

Correction for Round of Beam..... 6 - 7.44 6.7 1/2

Correction for fall in Sheer (if any).....

Correction for Iron Deck (if required)..... - 1 3/4

Additions for non-compliance with provisions of Para. 11 (d) and (e)..... 6 - 5 3/4

Other Corrections (if any).....

Winter Freeboard..... 6 - 5 3/4

Summer Freeboard..... 6 - 0 1/4

Indian Summer Freeboard..... 5 - 6 3/4

N.A. Winter Freeboard.....

Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the W iron deck with side..... + 1 3/4

Winter Freeboard from deck line..... 6 - 4 1/2

Summer " " "..... 6 - 2

Indian Summer " " "..... 5 - 8 1/2

N.A. Winter " " "..... 6 - 2

Winter Freeboard from deck line..... 6 - 2

Summer " " "..... 5 1/2

Indian Summer " " "..... 5 1/2

N.A. Winter " " "..... 6 - 2

Winter Freeboard from deck line..... 6 - 2

Summer " " "..... 5 1/2

Indian Summer " " "..... 5 1/2

N.A. Winter " " "..... 6 - 2

Winter Freeboard from deck line..... 6 - 2

Summer " " "..... 5 1/2

Indian Summer " " "..... 5 1/2

N.A. Winter " " "..... 6 - 2

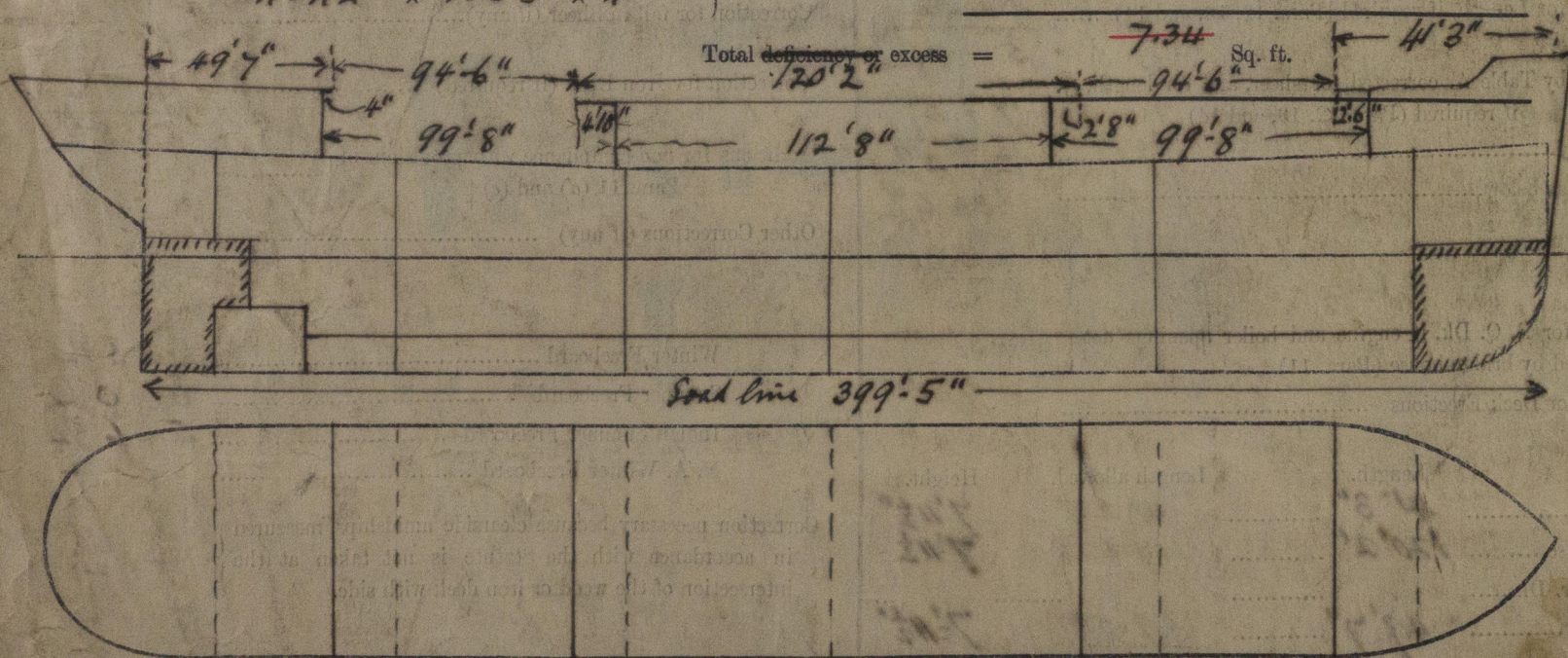
Do all the Frames extend to the top height in the Poop? *Yes* Raised Quarter Deck? *—* Bridge House? *Yes* Forecastle? *Yes*
 To what height do the Reverse Frames extend? *Poop to upper deck* *2. Forecastle deck frame to peak rail*
 Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? *Yes*
 Give particulars of the means for closing the openings in Bulkhead *No opening*
 Is the Poop or Raised Quarter Deck connected with the Bridge House? *No* Has the Bridge House an efficient Bulkhead at the fore end? *Yes*
 Give particulars of the means for closing the openings in Bulkhead *2 H. T. steel swing doors*
 What is the thickness of the Bridge Front plating? *7/16"* and Coaming plate?
 Give scantlings and spacing of the Stiffeners *all 9"x3 1/2"x23.9" B.A spaced 28"*
 Are bracket plates fitted at each end of the Stiffeners? *Yes* Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? *Yes*
 Has the Bridge House an efficient Iron Bulkhead at the after end? *Yes*
 How are the openings closed? *1 forward opening (port) with weather boards in channels. 1 WT. steel swing door (starboard)*
 Is the Forecastle at least as high as the main or top-gallant rail? *Yes* Has the Forecastle an efficient Iron or Wood Bulk'd. at after end? *No*
 Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? *Bridge House.*
 If the openings are not so protected are the exposed parts of the Casings efficiently constructed? *✓*
 Give thickness of plating; scantlings and spacing of Stiffeners *✓*
 What is the height of the exposed Casings? *✓* Are suitable means provided for closing all openings in them in bad weather? *✓*
 Are the Weather Deck Hatchways efficiently constructed and at least equal to the requirements of Section 28 of the Rules for 1904-5? Give particulars below:— *Yes*

Position and Size.	2-1. 30'4"x21'0"	2-2. 32'6"x21'0"	2-4. 29'9"x21'0"	2-5. 30'4"x21'0"	
Item.	Ship.	Rule.	Ship.	Rule.	Ship.
COAMING. Height above top of DECK	2'-9"		<i>Nil</i>		<i>Nil</i>
Thickness { Sides.....	7/16"		<i>Nil</i>		<i>Nil</i>
{ Ends.....	7/16"		<i>Nil</i>		<i>Nil</i>
SHIFTING BEAMS OR WEB PLATES. Number	5 4x3 1/2"	6	5		5
{ Section and Scantlings	19 7x16.57"	<i>Nil</i>	<i>Nil</i>		<i>Nil</i>
{ Material	Steel				
* FORE AND AFTERS. Number					
{ Section and Scantlings	✓	✓	✓		✓
{ Material					
HATCHES Thickness	3"	2 1/2"	2 1/2"		2 1/2"
Remarks.....					

* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.
 (If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the tables, state vertical distance from top of deck at side amidships to lower edge of lowest side scuttle.)
 The following information is to be given in all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) and under Shelter Deck Rules.
 What is the thickness of the Bridge Sheerstrake? *—* Strake between Main and Bridge Sheerstrakes? *—*

Delete the words { The Crew ~~are~~, are not, berthed in the bridge house.
 that do not apply { The arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory.

Length of Bulwarks in well *99'-8" Fold* *99'-8" AH*
 Area of Freeing Ports required by Para. 11 (e) each side of vessel = *39.86* Sq. ft.
 Ft. Tenths. Ft. Tenths. No. } Freeing Ports (each side of vessel) = *47.2* Sq. ft.
 4. 42 x 1. 33 x 4 }
 4. 42 x 1. 33 x 4 }



Show hereon line of Floors or Tank Top with position of any Breaks in same; also height of Peak Tank tops, &c., &c.

State any special features in the construction of the Vessel

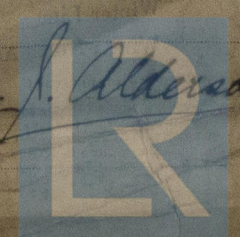
Owners *Canadian Government*

Address *Ottawa Ont*

Fee *\$50.00*

Received by me *Charged.*

N. J. Alderson



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