

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 Newcastle
Date of Survey 28th July 1924
Name of Surveyor G. H. Brown

Palmers Co's No 949
Ship's Name

"BRULIN"

Number in Register Book

Port of Registry and Nationality.

British

Official Number.

148087

Gross Tonnage.

X

Date of Build.

1924

Particulars of Classification.

+100A1 *With Freeboard*
For service on the Great Lakes
+River St Lawrence (contemplated)

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	<u>248.0</u>	<u>43.05</u>	<u>22.80</u>	<u>2005.71</u>
Length on LOADLINE.	<u>248.0</u>	Frame Depth <u>9'</u> Rule <u>5 1/2</u> <u>x2 = 7" = .58</u> <u>No span ceiling +.33</u>	Ceiling <u>none +20</u> Sheer <u>-.65</u> Tanks <u>Peak</u> <u>Raised DB</u> <u>u ER +11</u>	<u>2005.71</u>
CORRECTED DIMENSIONS.	<u>248.0</u>	<u>42.50</u>	<u>22.47</u>	<u>2016.71</u>

Moulded Depth as measured 25' 0"
Wood deck less 8 1/2" = 3 1/2"
Addition for Keel below base line 24 - 8 1/2 to use.
for draught record 1 1/4 inches.

NOTE.— If the depth is measured when vessel is afloat, the details of measurement should be reported.

CORRECTION FOR LENGTH.

Length of Ship on Loadline..... 248.0
Length in Table 296.5
Difference 48.5
Correction for 10ft., Table A. 1.3 Table C. .4
× Difference divided by 10 6.305 (if required.) 3.395
If 1/10ths length covered divide by 2 -6 1/4" -3 1/2"

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered Med: Depth
Thickness of usual wood deck, less stringer reduced.

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... 42' 4"
Round of Beam 10 1/2"
Normal round..... 10 1/2"
Difference ✓ ÷ 2 = ✓
Proportion of Deck uncovered (Para. 19) ✓

NOTE.— The round of beam should be reported on the full breadth of vessel at the gunwale.

Co-efficient of fineness..... .85
Any modification necessary [Para. 4 (a) to (e)]* C.D. B
Co-efficient as corrected82 Highest in Tables

Sheer { Stem..... 36 } 48 ÷ 2 = 24 ... Mean 36 11.21
at { Sternpost ... 12 } 34.80
36
12.65
Sheer at 1/2 of the length from { Stem 7 1/4 } 10 1/4 ÷ 2 = 5 1/8 ... Mean
{ Sternpost 3 }
Gradual mean Sheer Plotted on 7 1/2 4.90
Standard mean Sheer [Table, Para. 18] 24.36 Correction
Difference..... 19.46 ÷ 4 = 4.86
§ If limited as Para. 18 (f) +4 3/4
sheer is parallel to base line for 124' amidships
ie from frame 31 to frame 93.

Rise in Sheer { At front of bridge house.....
from amidships { Para. 18 (e) } { At after end of forecastle

Fall in Sheer { Para. 18 (d) } ÷ 2 =
Length uncovered Correction

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C..... 2' 7"
Correction for Length, if required (Para. 12, 13, and 14) -3 1/2"
2' 3 1/2"
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) } 5" 1 1/4"
Difference 2' 9 3/4"
Percentage as below..... 6.48%
2.186
Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) }
Allowance for Deck Erections -2 1/4"

	Length.	Length allowed.	Height.
Forecastle.....	<u>42</u>	<u>42</u>	<u>7' 3"</u>
Bridge House	-	-	-
† Raised Qr. Dk.....	-	-	-
Poop.....	-	-	-
Total	<u>42.0</u>	<u>42.0</u>	<u>.169</u>
Length of Ship	<u>248.0</u>	<u>248.0</u>	<u>= 1.35 lengths</u>
Corresponding percentage (Para. 11, 12, 13, or 14) } <u>10.8% x 6/10 = 6.48%</u>			

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Iron) Deck:—
Fresh Water Line above centre of Disc
Indian Summer Line " " "
Winter Line below " "
Winter North Atlantic Line " " "

Freeboard, Table A 5' 7 1/2"
Correction for Sheer +4 3/4"
6" 0 1/4"
-6 1/4"
5" 6"
-2 1/4"
5" 3 3/4"
Correction for Length
Allowance for Deck Erections
Correction for Round of Beam..... ✓
Correction for fall in Sheer (if any)..... ✓
Correction for Iron Deck (if required) Allowed in reduced Med. Depth
Additions for non-compliance with provisions of Para. 11 (d) and (e) †
Other Corrections (if any) For sculling etc and designed draught + 8 5" 11 1/4"

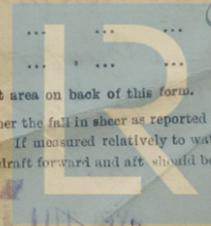
Winter Freeboard 5" 11 3/4"
Summer Freeboard 3 1/4" 5" 8 1/2"
Indian Summer Freeboard 5" 5 1/4"
N. A. Winter Freeboard 6" 1 3/4"
Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the wood or iron deck with side. Steel +1 3/4"
Winter Freeboard from deck line 6" 1 1/2"
Summer " " " " 5" 10 1/4"
Indian Summer " " " " 5" 7"
N. A. Winter " " " " 6" 3 1/2"
Steel 5" 10"
5"
3"
3 1/2"
5 1/2"

† 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.

MARLING FORM

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Lloyd's Register Foundation

002891-002896-0011

30 JUL 1924

23/20
5 1/2

Do all the Frames extend to the top height in the Poop? Raised Quarter Deck? Bridge House? Forecastle?

To what height do the Reverse Frames extend? *deep frames*

Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end?

Give particulars of the means for closing the openings in Bulkhead

Is the Poop or Raised Quarter Deck connected with the Bridge House? Has the Bridge House an efficient Bulkhead at the fore end?

Give particulars of the means for closing the openings in Bulkhead

What is the thickness of the Bridge Front plating? and Coaming plate?

Give scantlings and spacing of the Stiffeners

Are bracket plates fitted at each end of the Stiffeners? Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks?

Has the Bridge House an efficient Iron Bulkhead at the after end?

How are the openings closed?

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? *yes*

Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? *covered by steel dk-house except fore end - fore end 3/4" thick, stiffeners 4x3x36 with reverse angle 3x3x36, 24" apart*

If the openings are not so protected are the exposed parts of the Casings efficiently constructed? *yes - see above.*

Give thickness of plating; scantlings and spacing of Stiffeners

What is the height of the exposed Casings? *7'3"* Are suitable means provided for closing all openings in them in bad weather? *yes*

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:— *as approved in similar vessels.*

Position and Size.	1, 2, 3, 4, 5; 12'x28' U.D.		No. 6, 20'x28' UDK		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
	Ship.	Rule. as app'd	Ship.	Rule. as app'd						
COAMING	Height above top of DECK	2'6"	2'6"	3'0"	3'0"					
	Thickness	Sides	.44	.44	.44	.44				
		Ends	.44	.44	.44	.44				
SHIFTING BEAMS OR WEB PLATES	Number	one	one	one (new steel web)	one					
	Section and Scantlings	PP 7x7	PP 7x7	+2-PP 7x7	PP 7x7					
	Material									
# FORE AND AFTERS	Number	3	3	3	3					
	Section and Scantlings	3x3x40	3x3x40	Same as No. 1-2-3-4-5	3x3x40					
	Material									
HATCHES Thickness	3	3	3	3						
Remarks										

*Full Length
Plotted Sheer*

36.0 x 1 36.0
7.25 x 4 29.0
.15 x 2 .30
0 x 4 0
0 x 2 0
0 x 4 0
.30 x 2 .40
3.00 x 4 12.00
12.00 x 1 12.00

8/89.70
11.21 Mean

*7/8 Length
Plotted Sheer*

7.25 x 1 7.05
1.0 x 4 4.0
0 x 2 0
0 x 4 0
0 x 2 0
0 x 4 0
.5 x 2 1.0
3.75 x 4 15.0
12.00 x 1 12.00

8/39.25
4.90 Mean

* 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

Area of Freeing Ports required by Para. 11 (e) each side of vessel =

Sq. ft.

Ft. Tenths. Ft. Tenths. No.

Freeing Ports (each side of vessel) =

Sq. ft.

Total deficiency or excess =

Sq. ft.

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 *FOT service on the Great Lakes & River St. Lawrence*

Builder's name and yard number *Palmer & S.B. & Co. Ltd. 949*

Names of sister vessels *"NORTHTON" No. 77963, "RAHANE" No. 78127*

Owners *William Crawford Co.*

Address *Montreal*

Estimated Fee £ *7 : 0 : 0*

Received by me *See F.B. Report.*



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