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Hull No. 40417.

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.~~ throughout of less than Rule height. Bunk deck

Port of Survey _____

Date of Survey 7-12-29

Name of Surveyor C. Delmarest

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
MARKLAND	Canadian Liverpool	161135	✓	1929	100 A1 contemplated

Register Book ✓

Length.	Breadth.	Depth.	Under Deck Tonnage.
327.3	52.7	27.3	3555.12
326.5	Frame Depth 11 mean; Rule " 6½	Ceiling fitted; Sheer 1.03 (To Tank Top 27.34)	Peak Tanks } included
	2.5/12 ×2 = 2.83; 9" 0.75	(1/3 × 1/12 × 27.4)	
	For "Sparring" 4.17		
	52.04	48	
326.5	~~51.95~~	26.27	3555.12

Moulded Depth as measured ..... 30'-0"

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

Addition for Keel below base line for draught record ..... inches. 1.39"

30'-0
1'-1
31'-1
3'-6½
27'-6½

CORRECTION FOR LENGTH.

Length of Ship on Loadline	326.5		
Length in Table	360.0		
Difference	33.5		
Correction for 10ft., Table A.	1.5	Table C.	.8
× Difference divided by 10	50.25	(if required.)	2.68
If $\frac{6}{10}$ths length covered divide by 2	÷ 2½" 5"		−2¾"

CORRECTION FOR IRON DECK.

Proportion covered, if less than $\frac{7}{10}$ths length covered	~~.443~~ .631
Thickness of usual wood deck, less stringer	~~3½"~~ 3.3"

3.3" × .724 = 2.39" = −2½"

CORRECTION FOR ROUND OF BEAM.

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

Breadth at Gunwale amidships	52.5
Round of Beam	13"
Normal round	13."12
Difference	~~0.12~~ ÷ 2 = ... .06
Proportion of Deck uncovered (Para. 19)	NIL

Freeboard, Table A	(~~Summer 4½"~~)	~~4'~~ ~~4'½"~~ 6¾
Correction for Sheer	+	~~9¼~~ 1½
		~~8-4¾~~ 1¼
Correction for Length	−	~~2½~~ 5
		~~8-2¼~~ 7-11¼
Allowance for Deck Erections		~~2-9~~ 1'-3¾"
		~~5-5¼~~ 6'-7½"
Correction for Round of Beam		nil
Correction for fall in Sheer (if any)		nil
Correction for Steel Deck (if required)	−	~~-3½~~ 2½
		~~5-1¾~~ 6-5
Additions for non-compliance with provisions of Para. 11 (d) and (e) ‡		nil
Other Corrections (if any)		nil

Winter Freeboard		~~5'-1¾"~~ 6'-5
Summer Freeboard	(4½'-6") − ~~5½~~ − 5¼"	~~4-8¼~~ 5'-11¾
Indian Summer Freeboard	− ~~5½~~	~~4-2¾~~ 5'-6½
N. A. Winter Freeboard	+ ~~2~~	~~5-3¾~~ 6'-7

Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the ~~wood or~~ steel deck with side. + 1¾"

Winter Freeboard from deck line	~~5'-3½"~~ 6'-6¾"
Summer " " " "	~~4-10~~ 6'-1½"
Indian Summer " " "	~~4-4½~~ 5'-8¼"
N.A.Winter " " " "	~~5-5½~~ 6'-8¾"

	Length.	Length allowed.	Height.
	31	31	7'-0"
	~~292.5 × 36.5 / 52.5 = 190.8~~	52.58	7'-0
	94.5	51.33	
	92.25		
	21	21	7'-0
	~~280.5~~	~~242.8~~	
	326.5	326.5	

.855 = ~~.743~~ .537

S

13 / 8½ } 21.5 ÷ 2 = 10.75 ...Mean

36 | 38.32
1.06

Length from { Stem 5 / Sternpost 1 } 6 ÷ 2 = 3 ...Mean

~~3.55~~ 5.54.33

[Table, Para. 18] ..... 42.65 Correction

Difference ..... ~~37.1~~ ÷ 4 = ~~9.3~~ 9.58

18 (f) 38.32

~~+9¼~~ +9½

At front of bridge house .....

At after end of forecastle .....

÷ 2 = ...

Correction

ALLOWANCE FOR DECK ERECTIONS :—

(~~Summer 6"~~) ..... 4'-5" 4¾

~~Length, if required (Para. 12, 13, and 14)~~ ..... − 2¾

4'-2"

Table A. corrected for sheer, ~~and for length, if required (Para. 11, 12, 13, and 14)~~ } 7'-11¼" ~~8-4¾~~

..... 3'-11¼" ~~3-11¾~~

~~69.3~~ 34.96% ~~49.75~~

15.82" ~~6.93~~

~~14.325~~

~~42.975~~

~~28.650~~

~~33.09075~~

Poop Dk. if engine and boiler openings not within bridge house (Para. 11) ✓

Total Erections ..... 2'-9" 1'-3¾"

Percentage (Para. ~~11, 12, 13, or 14~~) } ~~69.3~~ 34.96% ✓

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, ~~Wood~~ (Steel) Deck :— 6'-1½" ~~4'-10~~ 1½

Fresh Water Line	above centre of Disc	6"
Indian Summer Line	" " "	5½
Winter Line	below " "	5
Winter North Atlantic Line	" " "	7

* If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible.

† In vessels obtaining an allowance for deck erections under Para. 11 where the sheer drops abaft amidships the height of the R.Q.D. is to be taken from the level of the top of the amidship beam.

‡ In flush-decked vessels the total standard mean sheer means the sheer measured at the stem and sternpost. In vessels having poops and forecastles, it means the sheer measured at points distant one-eighth of the vessel's length from stem and stern-post.

‡ 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.

Copy to the Surveyor 13/12/29.

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004153-001459-0037

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

To what height do the Reverse Frames extend? Channel frames.

Has the Poop ~~or Raised Quarter Deck~~ an efficient Iron Bulkhead at the fore end? Yes & protected by trunk in ce

Give particulars of the means for closing the openings in Bulkhead None. No openings

Is the Poop ~~or Raised Quarter Deck~~ connected with the ~~Bridge House?~~ TRUNK Yes 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? Enclosed in steel deckhouse.

Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? ~~Hatchways fixed on trunk, not by side~~

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 the Rules? Give particulars below:— Yes.

Position. F	No. 1 – 27' ×	27'-11" to 31'-7"	No. 2 –	31'-6" × 30'-6"	No. 3 –		No. 4	
Size.					31'-6" ×	30'-6"	31'-6" × 30'-6"	
Coaming. Height above top of DECK	2'-3"		2'-3"		2'-3"		2'-3"	
Coaming. Thickness Sides	.44							
Coaming. Thickness Ends	.44							
Shifting Beams or Web Plates. Number	3		4		4		4	
Shifting Beams or Web Plates. Section and Scantlings	plate	25" ×	.42					
Shifting Beams or Web Plates. Material	Steel							
* Fore and Afters. Number	4 angles							
* Fore and Afters. Section and Scantlings	6 × 3½ × 50							
* Fore and Afters. Material	horizontal stiffener			B.a.	7 × 3½ ×	40 &	2 – 2"	Stays.
Hatches Thickness	3"							
Hatches 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 tables, state vertical distance from top of keel to lower edge of lowest side scuttle.) See plan forwarded

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*

What is the thickness of the Bridge Sheerstrake? ✓ Strake between Main and Bridge Sheerstrakes? ✓

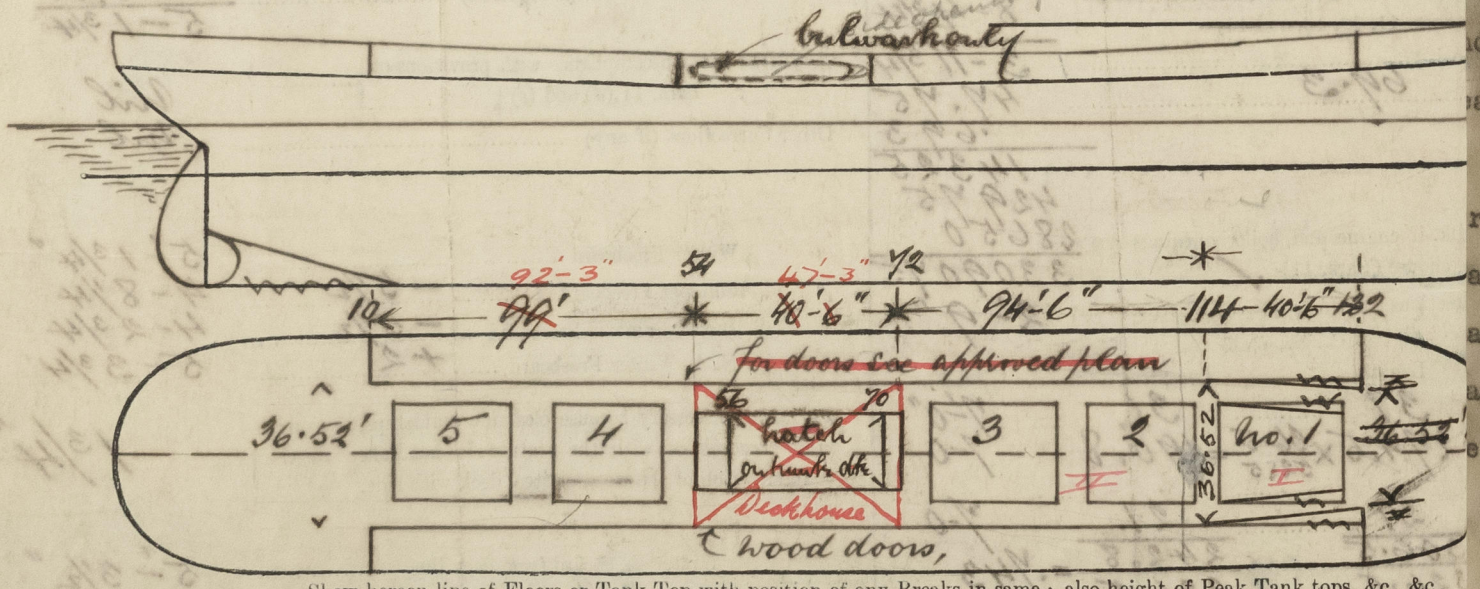
Delete the words that do not apply { The Crew ~~are~~, *are not*, berthed in the bridge house. / The arrangements to enable them to get backwards and forwards from their quarters *are*, ~~*are not*~~ satisfactory.

Length of Bulwarks in well 274 ft. 5

Area of Freeing Ports required by Para. 11 (*e*) each side of vessel = 55 Sq. ft. 0

Ft.	Tenths.		Ft.	Tenths.		No.			
1.5		×	1.45		×	25	Freeing Ports (each side of vessel) =	54.4	57 Sq. ft. 4
1.5		×	1.00		×	2		3.0	

Total ~~deficiency or~~ excess = 2 Sq. ft. 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 Trunk $\frac{52.52}{36.52}$ = .69 – height $\frac{30}{}$

Builder's name and yard number Earle's S.B. & E. Co's No. 6 Y/Y

Names of sister vessels ✓

Owners Mersey Shipping Co., Ld.

,, Address Liverpool, Nova Scotia.

Fee £ 8 : 6 : 8 To be applied for with F.E. fees.

Received by me

Insert fee

Gross tonnage not yet calculated.

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