

rd deck, gangway, cargo and

Rpt. 11b.

WED. JAN. 26 1921

29716

Lloyd's Register of British & Foreign Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

PARTICULARS RELATING TO ALL STEAM SHIPS ~~OTHER 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 Leith
Date of Survey 24th Jan 1921
Name of Surveyor A. T. Thomas

Ship's Name <u>MSB now Leo</u>	Port of Registry and Nationality <u>London</u> <u>British</u>	Official Number <u>145059</u>	Gross Tonnage <u>1128</u>	Date of Build <u>1908</u>	Particulars of Classification <u>contemplated 100 A.1.</u>
Number in Register Book <u>72798</u>					

Registered dimensions from Ship's Register	LENGTH <u>225.7</u>	BREADTH <u>35.4</u>	DEPTH <u>14.45</u>	UNDER DECK TONNAGE <u>929.53</u>
Length on LOADLINE	<u>224.11</u>	Frame Depth Rule <u>8.208</u> <u>3 3/4</u> <u>2 = .62</u>	Ceiling fitted Sheer <u>+ .64</u>	Peak Tanks } Ind.
CORRECTED DIMENSIONS	<u>224.92</u>	<u>34.78</u>	<u>15.09</u>	<u>929.53</u>

Moulded Depth as measured..... 17'-0 3/4" to upper deck
NOTE.— If the depth is measured when vessel is afloat, the details of measurement should be reported.

Co-efficient of fineness..... .79
Any modification necessary [Para. 4 (a) to (e)]* } C.O.B
Co-efficient as corrected..... .77

CORRECTION FOR LENGTH.
Length of Ship on Loadline..... 224.11 224.92
Length in Table 204.75
Difference 20.17
Correction for 10ft., Table A. 1.1 Table C.
× Difference divided by 10 2.218 (if required.)
If 1/10ths length covered divide by 2 1.109
+ 1

Sheer at Stem..... 6'-3 1/4"
at Sternpost 2'-9 1/4"
9'-1" ÷ 2 = 5'-5" Mean
Sheer at 1/2 of the length from Stem 3'-9"
Sternpost 1'-4 1/4"
5'-1 1/4" ÷ 2 = 30.625 Mean
Gradual mean Sheer 55.09 ÷ .55 = 55.68
Standard mean Sheer [Table, Para. 18] 32.49 Correction
Difference..... 22.60 ÷ 4 = 5.65
§ If limited as Para. 18 (f)..... - 5 3/4

CORRECTION FOR IRON DECK.
Proportion covered, if less than 1/10ths length covered ✓
Thickness of usual wood deck, less stringer 3" - 3"

Rise in Sheer from amidships } At front of bridge house.....
[Para. 18 (e)] } At after end of forecastle.....
Fall in Sheer } ÷ 2 =
Para. 18 (d) }
Length uncovered Correction

CORRECTION FOR ROUND OF BEAM.
Breadth at Gunwale amidships..... 35.25 feet
Round of Beam..... 7 3/4
Normal round..... 4.06
Difference69 ÷ 2 = 3.45
Proportion of Deck uncovered (Para. 19) ✓

ALLOWANCE FOR DECK ERECTIONS:—
Freeboard, Table C..... 0'-10 1/4"
Correction for Length, if required (Para. 12, 13, and 14) ✓
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) 2'-6 3/4"
Difference 1'-8 1/2"
Percentage as below..... 84.6% 69.6%
Para. 12 Scale, Class A Appliances. 14.27
Correction for R. Q. Dk, if engine and boiler openings not covered by bridge house (Para. 11) }
Allowance for Deck Erections - 1'-2 1/4"

Freeboard, Table A 3'-0 1/2"
Correction for Sheer - 5 3/4"
Correction for Length + 1
Allowance for Deck Erections 1'-5 1/4"
1'-2 1/2"
Correction for Round of Beam..... ✓
Correction for fall in Sheer (if any)..... ✓
Correction for Iron Deck (if required) - 3
Additions for non-compliance with provisions of Para. 11 (d) and (e) † }
Other Corrections (if any) ✓

	Length.	Length allowed.	Height.
Forecastle.....	<u>29'-0"</u>	<u>28.55</u>	<u>7-1</u>
Bridge House.....	<u>98'-0"</u>	<u>98.00</u>	<u>7-0</u>
† Raised Qr. Dk.....	<u>75'-0"</u>	<u>45.00</u>	<u>4-1</u>
Poop.....	✓		
Total.....		<u>201.55</u>	<u>1.896</u>
Length of Ship.....		<u>224.92</u>	
Corresponding percentage (Para. 11, 12, 13, & 14) }	<u>69.6%</u>		

Winter Freeboard 1'-2 1/2"
Summer Freeboard 1'-0"
Indian Summer Freeboard 0'-9 1/2"
N. A. Winter Freeboard 1'-4 1/2"
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. 1 1/4

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 " " " "
1'-2-21

Winter Freeboard from deck line 1'-3 3/4"
Summer " " " " 1'-1 1/4"
Indian Summer " " " " 0'-10 3/4"
N. A. Winter " " " " 1'-5 3/4"
1'-1"
4"
2 1/2"
4 1/2"

† 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 low draft forward and aft, should be reported.

W410-0156

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MARKING REPORT
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Do all the Frames extend to the top height in the Poop? Raised Quarter Deck? *yes* Bridge House? *yes* Forecastle? *yes*
 To what height do the Reverse Frames extend? *no reverse frames*
 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 openings*
 Is the Poop or Raised Quarter Deck connected with the Bridge House? *yes* Has the Bridge House an efficient Bulkhead at the fore end? *yes*
 Give particulars of the means for closing the openings in Bulkhead *class A ship's boards on riveted channels*
 What is the thickness of the Bridge Front plating? *30* and Coaming plate? *36*
 Give scantlings and spacing of the Stiffeners *6x3+36 B.A. spaced 26 1/2" horizontal to hatch end*
 Are bracket plates fitted at each end of the Stiffeners? *yes* Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? *bulwark rail*
 Has the Bridge House an efficient Iron Bulkhead at the after end? *yes*
 How are the openings closed? *no openings*
 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, Deck, Raised Quarter Deck, or enclosed by a Strong ~~Iron~~ Steel Deckhouse? *yes*
 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? *7.2" above B.O.K.* 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:— *yes* *Approved for classification at Glasgow*

Position and Size.		N ^o 1 M.D. 21'10" x 13'3"		N ^o 2 B.D. 29'7" x 13'3"		N ^o 3 R.Q.D. 6'0" x 9'11"		N ^o 4 R.Q.D. 29'7" x 13'3"		Ship.	Rule.
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	
COAMING.	Height above top of DECK	3'-3"	2'-8"	2'-8"	2'-8"	2'-8"	2'-8"	2'-8"			
	Thickness	Sides.....	.437	.437	.437	.437	.437	.437			
		Ends.....	.437	.375	.437	.437	.437	.437			
SHIFTING BEAMS OR WEB PLATES.	Number	2	3	1	3	3	3	3			
	Section and Scantlings	9x5 1/2 x 3/4	9x5 1/2 x 3/4	✓	9x5 1/2 x 3/4	9x5 1/2 x 3/4	9x5 1/2 x 3/4	9x5 1/2 x 3/4			
	Material	steel	steel	✓	steel	steel	steel	steel			
* FORE AND AFTERS.	Number	3	3	1	3	3	3	3			
	Section and Scantlings	8x6 x 6x6	8x6 x 6x6	8" x 6"	8x6 x 6x6	8x6 x 6x6	8x6 x 6x6	8x6 x 6x6			
	Material	pine	pine	pine	pine	pine	pine	pine			
HATCHES Thickness	3"	2 1/2"	3"	3"	3"	3"	3"				
Remarks.....	new	new	new	new	new	new	new				

* When the Fore and Afters are of wood the depth should be stated from the underside of the hatches.

(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.)

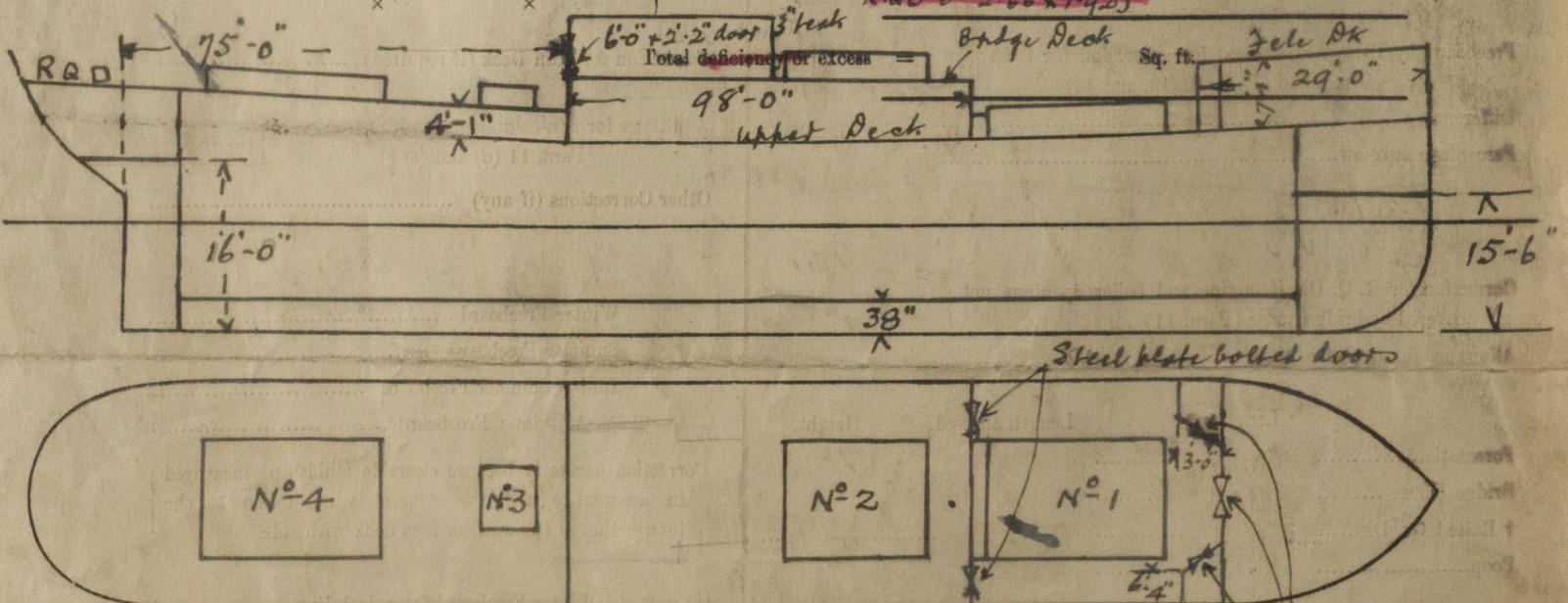
The following information is to be given in all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) and under Shelter Deck Rules.

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~~ satisfactory.

Length of Bulwarks in well *23'-8" 22.92'*

Area of Freeing Ports required by Para. 11 (e) each side of vessel = *8.79* Sq. ft.

Ft. Tenths. Ft. Tenths. No. } Freeing Ports (each side of vessel) = *4.266 x 1.92 x 2 = 16.41* Sq. ft. *51*
2.66 x 1.92 x 2



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 *Ellerman Lines Ltd*

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