

Provisional

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Index No. 29520  
(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 *New York*  
Date of Survey *5 Nov 1920*  
Name of Surveyor *A. Christensen*

Ship's Name *Harmia Dockyard*  
Number in Register Book *Hulls N<sup>o</sup> 46, 7, & 8.*

Particulars of Classification.  
*+100 A.I. Carrying petroleum in bulk (Long Frames)*

LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
420	Frame Depth Rule	Ceiling Sheer	Peak Tanks

Moulded Depth as measured..... *33'-0"*

Addition for Keel below base line for draught record..... 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.....	<i>420</i>	✓
Length in Table .....	<i>396</i>	✓
Difference .....	<i>24</i>	✓
Correction for 10ft., Table A. ....	<i>1.6</i>	Table C. <i>.8</i> ✓
× Difference divided by 10 .....	<i>3.84</i>	(if required.) <i>1.92</i> ✓
If $\frac{1}{10}$ ths length covered divide by 2	<i>+3 3/4</i>	<i>+2</i> ✓

### CORRECTION FOR IRON DECK.

Proportion covered, if less than  $\frac{1}{10}$ ths length covered ..... *.4458*  
Thickness of usual wood deck, less stringer ..... *3.24*

*- 1/2" ✓*

### CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships.....	<i>54</i>
Round of Beam .....	<i>13 1/2</i>
Normal round.....	<i>13 1/2</i>
Difference .....	<i>✓</i> ÷ 2 = <i>✓</i>
Proportion of Deck uncovered (Para. 19) .....	<i>✓</i>

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

Freeboard, Table A .....	<i>8-11</i> ✓
Correction for Sheer .....	<i>+ 1/2</i> ✓
Correction for Length .....	<i>8-11 1/2</i> ✓
Allowance for Deck Erections .....	<i>+ 3 3/4</i> ✓
Correction for Round of Beam.....	<i>9-3</i> ✓
	<i>- 11 1/2</i> ✓
	<i>8-3 1/2</i> ✓

Correction for fall in Sheer (if any).....	
Correction for Iron Deck (if required) .....	<i>- 1 1/2</i> ✓
Additions for non-compliance with provisions of Para. 11 (d) and (e) † .....	<i>8-2</i> ✓
Other Corrections (if any) .....	

Winter Freeboard .....	<i>8-2</i> ✓
Summer Freeboard .....	<i>7-8</i> ✓
Indian Summer Freeboard .....	<i>7-2</i> ✓
N. A. Winter Freeboard .....	<i>✓</i>

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. *+ 13 1/4* ✓

Winter Freeboard from deck line .....	<i>8-3 3/4</i> ✓
Summer " " " .....	<i>7-9 3/4</i> ✓
Indian Summer " " " .....	<i>7-3 3/4</i> ✓
N. A. Winter " " " .....	<i>✓</i>

Winter Freeboard from deck line (Iron) Deck :— *4-9 1/2* ✓

Summer " " " .....	<i>6 1/2</i> ✓
Indian Summer " " " .....	<i>6</i> ✓
N. A. Winter " " " .....	<i>6</i> ✓

† 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.

Block Coeff. = *.44*  
Day *.49* Tonnage.

Stem..... *96*  
Sternpost ... *54*  $153 \div 2 = 76 1/2$  Mean  
at  $\frac{1}{8}$  of the length from Stem *32*  
Sternpost *23*  $55 \div 2 = 27 1/2$  Mean  
ual mean Sheer ..... *Plotted from Curve*  
lard mean Sheer [Table, Para. 18] ..... *51.0* ✓  
Difference..... *52.0* ✓ Correction  $1 \div 4 = + 1/4$

limited as Para. 18 (f) .....  
*No sheer between  $\frac{1}{8}$  length amidships*  
*Sheer at  $\frac{1}{8}$  length from stem =  $7 1/2$ "*  
At front of bridge house.....  $= 3/4$ "  
amidships {  
At after end of forecastle.....  $= 7 1/4$ "  
At  $\frac{1}{8}$  length from sternpost.....  $= 3/4$ "

in Sheer {  
a. 18 (d) } ÷ 2 =  
h uncovered .....

### ALLOWANCE FOR DECK ERECTIONS :—

ard, Table C.....	<i>5-8 1/4</i> ✓
ion for Length, if required (Para. 12, 13, and 14) .....	<i>+2</i> ✓
ard by Table A. corrected for sheer, and for length, if required (Para. 12, 13, and 14) .....	<i>5-10 1/2</i> ✓
ce .....	<i>9-3</i> ✓
age as below.....	<i>3-4 3/4</i> ✓
	<i>28.2%</i> ✓

on for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) .....  
e for Deck Erections ..... *- 1 1/2* ✓

Length.	Length allowed.	Height.
<i>34.0</i>	<i>34.0</i>	<i>4.6</i>
<i>36.0</i>	<i>36.0</i>	<i>8.0</i>
<i>114-3"</i>	<i>114.25"</i>	<i>8.0</i>
<i>184.25"</i>	<i>184.25"</i>	<i>8.0</i>
<i>420</i>	<i>420</i>	<i>.4458</i>

BOARD 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 " " " .....	

frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside is obtaining an allowance if possible.  
the height of the R.Q.D. is to be taken from the level of the top of the amidship beam.  
In vessels having poops and forecastles, it means the sheer measured at the stem and stern-point of the vessel's length from stem and stern-post.

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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?

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? Has the Forecastle an efficient Iron or Wood Bulk'd. at after end?

Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse?

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:—

Position and Size.		Ship.		Rule.		Ship.		Rule.		Ship.		Rule.		Ship.		Rule.	
Item.		Ship.		Rule.		Ship.		Rule.		Ship.		Rule.		Ship.		Rule.	
COAMING.	Height above top of DECK .....																
	Thickness {	Sides.....															
		Ends.....															
SHIFTING BEAMS OR WEB PLATES.	Number .....																
	Section and Scantlings .....																
		Material .....															
* FORE AND AFTERS.	Number .....																
	Section and Scantlings .....																
		Material .....															
HATCHES Thickness .....																	
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

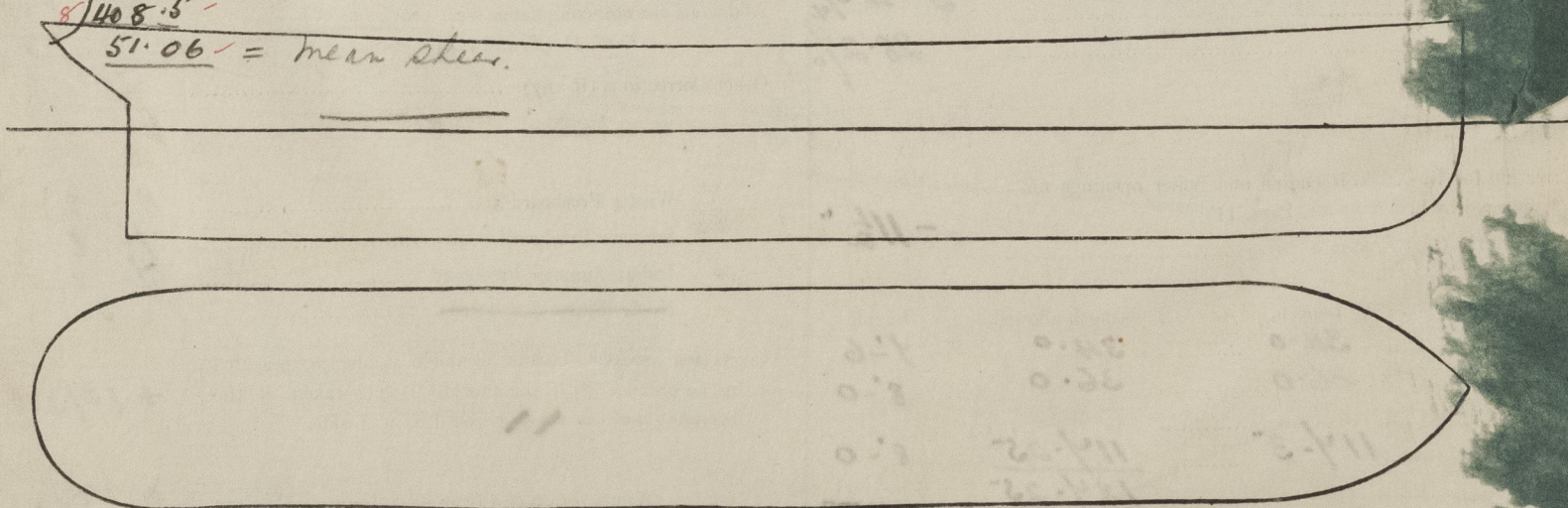
Area of Freeing Ports required by Para. 11 (e) each side of vessel = Sq. ft.

Ft.	Tenths.	Ft.	Tenths.	No.	} Freeing Ports (each side of vessel) =	Sq. ft.
3	4	3	4	1		
3	4	3	4	1		

Total deficiency or excess = Sq. ft.

96 1 96  
32 4 128  
7 1/2 2 15  
3 1/4 4 3  
0 2  
3 1/4 4 3  
7 1/4 2 14.5  
23 4 92  
57 1 54

1408.5  
51.06 = mean sheer.



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

From the particulars supplied in letter I have plotted the curve to obtain the intermediate sheer heights as given above

Owners

Address

Fee £

Received by me



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