

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 Rotterdam
Date of Survey 16th March 1927
Name of Surveyor

Ship's Name <u>M. S. "Shaga"</u>	Port of Registry and Nationality. <u>London</u> <u>British</u>	Official Number. <u>149793</u>	Gross Tonnage.	Date of Build. <u>1926/27</u>	Particulars of Classification. <u>+100A.1. Carrying Petroleum in Bulk. For service on the East Coast of Africa. with loading ports to be assigned (contemplated)</u>
Number in Register Book					
Registered dimensions from Ship's Register.	LENGTH. <u>120.5</u>	BREADTH. <u>24.2</u>	DEPTH. <u>8.5</u>	UNDER DECK TONNAGE. <u>184.95</u>	Moulded Depth as measured..... <u>9'-0"</u>
Length on LOADLINE.	<u>120.0</u>	Frame Depth <u>42</u> Rule " <u>3</u> <u>1 1/2</u> <u>- .25</u> <u>No opening</u> <u>+ .38</u>	Ceiling <u>+ .20</u> Sheer <u>+ .12</u>	Peak <u>3 incl.</u> Tanks	Addition for Keel below base line for draught record..... <u>80</u> inches.
CORRECTED DIMENSIONS.	<u>120.0</u>	<u>24.28</u>	<u>8.82</u>	<u>187.95</u>	

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

Co-efficient of fineness..... .732
Any modification necessary [Para. 4 (a) to (e)]*
Co-efficient as corrected73

Sheer { Stem..... 40
at { Sternpost ... 19 } 59 ÷ 2 = 29.5...Mean
Sheer at $\frac{1}{2}$ of the length from { Stem 19
Sternpost 10 } 29 ÷ 2 = 14.5...Mean
Gradual mean Sheer 14.5 ÷ 33 = 26.86
Standard mean Sheer [Table, Para. 18] 13.2 Correction
Difference..... 1.3 ÷ 4 = .32
§ If limited as Para. 18 (f) -1/4"

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

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C..... 0' 2"
Correction for Length, if required (Para. 12, 13, and 14) + 1/2
0' 2 1/2"
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) } 1' 3 1/4"
Difference 1' 1"
Percentage as below..... 14.04%
1.82

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) }
Allowance for Deck Erections - 1 3/4"

	Length.	Length allowed.	Height.
Forecastle.....	<u>21.2</u> × $\frac{2}{3}$	<u>7.06</u>	<u>2.0'</u>
Bridge House			
† Raised Qr. Dk.....	<u>37.1</u> × $\frac{2}{3.13}$	<u>23.70</u>	<u>2.0</u>
Poop.....			
Total		<u>30.76</u>	<u>.256</u>
Length of Ship	<u>120.0</u>	<u>2.05</u> units	
Corresponding percentage { (Para. 11, 12, 13, or 14) } <u>16.44%</u> × $[\frac{2}{3} + (\frac{2}{3.13}) \cdot 4] = 14.04\%$			

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, ~~Wood~~ (Steel) Deck:—

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

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If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to be used 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 sternpost.

CORRECTION FOR LENGTH
Length of Ship on Loadline..... 120.0
Length in Table 108.0
Difference 12.0
Correction for 10ft., Table A.8 Table C. .4
× Difference divided by 1096 (if required.) .48
If $\frac{1}{10}$ ths length covered divide by 2 + 1" + 1/2"

CORRECTION FOR IRON DECK.
Proportion covered, if less than $\frac{1}{10}$ ths length covered486
Thickness of usual wood deck, less stringer 2 3/4" - 1 1/4"
= 1.34

CORRECTION FOR ROUND OF BEAM.
Breadth at Gunwale amidships..... 24'-0"
Round of Beam 6"
Normal round..... 6"
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.

Freeboard, Table A 1' 2 1/2"
Correction for Sheer - 1/4
1' 2 1/4"
Correction for Length + 1
1' 3 1/4"
Allowance for Deck Erections - 1 3/4
1' 1 1/2"
Correction for Round of Beam.....
Correction for fall in Sheer (if any).....
Correction for Steel Deck (if required) - 1 1/4
1' 0 1/4"
Additions for non-compliance with provisions of }
Para. 11 (d) and (e) }
Other Corrections (if any) to correspond with desired moulded draught of 9'-7 1/4" + 5'
1' 5 1/4"

Winter Freeboard
Summer Freeboard
Indian Summer Freeboard
N. A. Winter Freeboard

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. + 1

Winter Freeboard from deck line
Summer " " " "
Indian Summer " " " "
N. A. Winter " " " "
1' 6 1/4" For all seasons
2"

MARKING FORM
RECEIVED 24 MAR 1927

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Do all the Frames extend to the top height in the Poop? Yes Raised Quarter Deck? Yes Bridge House? Yes Forecastle? Yes pt. 11b.
 To what height do the Reverse Frames extend? Single angle 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 Yes
 What is the thickness of the Bridge Front plating? 1/2" and Coaming plate? 1/2"
 Give scantlings and spacing of the Stiffeners Yes
 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? Yes
 Is the Forecastle at least as high as the main or top-gallant rail? 2-0 above upper deck 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? Partly covered by strong steel deckhouse, partly enclosed
 If the openings are not so protected are the exposed parts of the Casings efficiently constructed? Yes
 Give thickness of plating; scantlings and spacing of Stiffeners Coaming . 30 plating . 26 Stiffeners . 3 x 2 1/2 x . 28
 What is the height of the exposed Casings? 7'-6" 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:— Steel Airtight Covers

Position and Size.											
Item.		Ship.	Rule.	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?

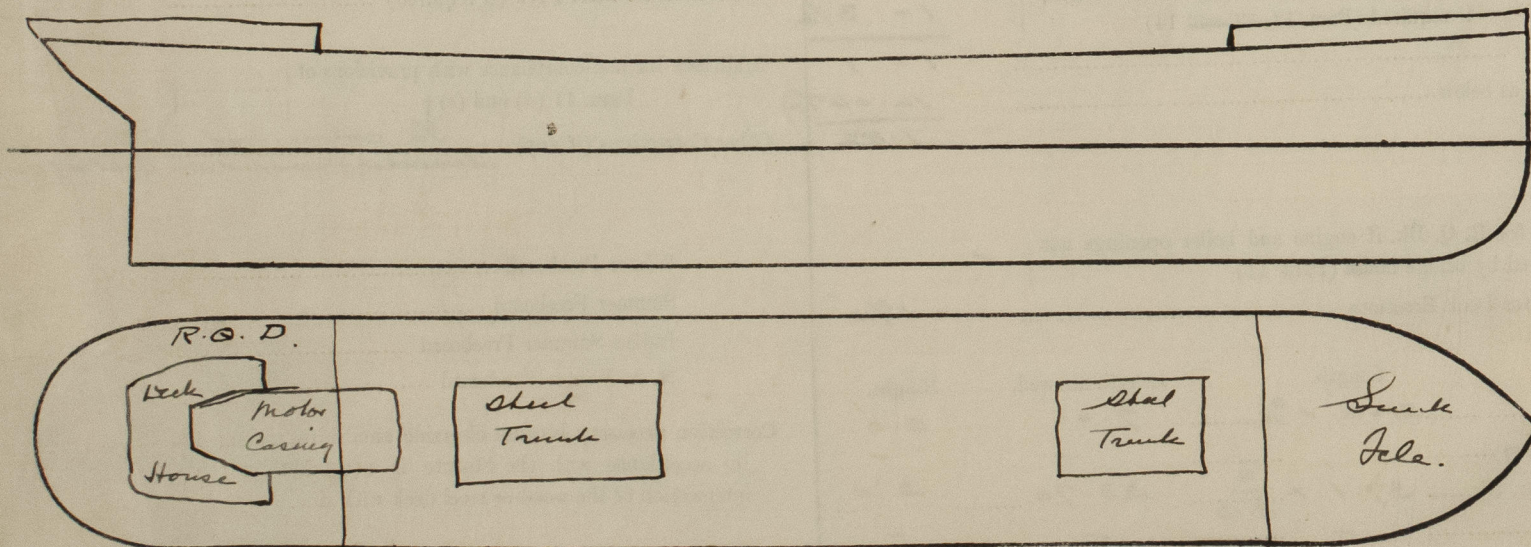
Delete the words { The Crew are, are not, berthed in the bridge house.
 that do not apply { The arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory.

Length of Bulwarks in well 63-4 open rail

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.
<u>1</u>	<u>x</u>	<u>1</u>	<u>x</u>	<u>1</u>		<u> </u>	
<u>1</u>	<u>x</u>	<u>1</u>	<u>x</u>	<u>1</u>		<u> </u>	

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

Builder's name and yard number M. V. Boel's Scheepswerven. Yard No. 157

Names of sister vessels

Owners Shell Co. of East Africa Co. Ltd.

" Address St Helens Court. Great St Helens. London E.C.3

Fee £ Received by me