

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

FRI. 11 MAY. 1923

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-ON-TYNE

Date of Survey

Name of Surveyor R. Langlands

Ship's Name "MONGOLIA" Port of Registry and Nationality Newcastle 145514 Official Number 16384.7 Date of Build 1923 Particulars of Classification + 100 A1 Shelter deck with freeboard (contemplated)

| Registered dimensions from Ship's Register. | LENGTH. | BREADTH. | DEPTH. | UNDER DECK TONNAGE. |
|---|---------------|-------------------------|-------------------------------|----------------------|
| | <u>551.6</u> | <u>42.05</u> | <u>38.5</u> | <u>8968.40</u> |
| Length on LOADLINE. | <u>549.45</u> | Frame Depth <u>40.8</u> | Keel to Ceiling <u>+ 2.20</u> | Peak <u>11948.32</u> |
| | | Rule <u>8.5</u> | Sheer <u>+ 8.45</u> | Tanks |
| | | <u>2.87 + 2.474</u> | | |
| | | <u>= - .39</u> | | |
| CORRECTED DIMENSIONS. | <u>549.45</u> | <u>41.66</u> | <u>39.53</u> | <u>11948.32</u> |

Co-efficient of fineness.....

Any modification necessary [Para. 4 (a) to (e)]*

Co-efficient as corrected

Sheer { Stem..... 125.5 } 185.5 ÷ 2 = 92.75 Mean

at { Sternpost 60. } 36 31.41 873

Sheer at $\frac{1}{8}$ of the length from { Stem 42 } 106 ÷ 2 = 53 Mean

Gradual mean Sheer 92.75 + 96.36 ÷ 55 = 96.36

Standard mean Sheer [Table, Para. 18] 64.95 Correction

Difference..... 29.61 ÷ 4 = 7.40

§ If limited as Para. 18 (f) -7½"

Rise in Sheer { At front of bridge house..... } ✓

from amidships { At after end of forecastle } ✓

Fall in Sheer { Para. 18 (d) } ÷ 2 =

Length uncovered Correction

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C..... 12-2½ less 3-2" 9-0½"

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) } 11-7

Difference 2-6½

Percentage as below..... 89.14

27.19

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) }

Allowance for Deck Erections -2-3¼"

| | Length. | Length allowed. | Height. |
|----------------------|---------------|-----------------|-------------|
| Forecastle..... | <u>82.55</u> | <u>68.68</u> | <u>8.4</u> |
| Bridge House..... | | <u>6.94</u> | |
| † Raised Qr. Dk..... | <u>2.7</u> | <u>1.35</u> | |
| Poop..... | <u>440.3</u> | <u>440.3</u> | <u>8.65</u> |
| Total..... | <u>525.45</u> | <u>514.27</u> | |

Length of Ship 549.45

Corresponding percentage { (Para. 11, 12, 13, or 14) } 89.14%

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 " " "

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† 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 sternpost.

Moulded Depth as measured..... 42.3

Addition for Keel below base line for draught record..... 2 inches.

CORRECTION FOR LENGTH.

Length of Ship on Loadline..... 549.45Length in Table 507Difference 42.45Correction for 10ft., Table A. 1.7 Table C. ✓× Difference divided by 10 7.22 (if required.)If $\frac{1}{10}$ ths length covered divide by 2 3.61 + 3½"

CORRECTION FOR IRON DECK.

Proportion covered, if less than $\frac{7}{10}$ ths length covered 94% Rule applied

Thickness of usual wood deck, less stringer 1.50 2.04 2.04 1.96 -2"

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... 41.75Round of Beam 6" 5-0Normal round..... 14.94Difference 11.94 ÷ 2 = 5.94

Proportion of Deck uncovered (Para. 19) 5.94 0.45 + ¼"

Freeboard, Table A 12-2½"Correction for Sheer - 7½"Correction for Length + 3½"Allowance for Deck Erections - 2-3¼"Correction for Round of Beam..... + ¼"Correction for fall in Sheer (if any)..... 9-7½"Correction for Iron Deck (if required) - 2Additions for non-compliance with provisions of } 9-5½"

Para. 11 (d) and (e) † }

Other Corrections (if any)

Winter Freeboard 9-5½"Summer Freeboard 8-9Indian Summer Freeboard 8-0½"

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 iron deck with side. } + ½"

Winter Freeboard from deck line 9-6"Summer " " " 8-9½"Indian Summer " " " 8-1

N. A. Winter " " " ✓

1½" Composition on steel shelter " " " 8-9½"" " " 8" " " 8½"" " " 8½"

† 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.

MARKING FORM

Lloyd's Register

Foundation

Board of Trade subdivision loadline = 3-10½" below centre of disc.

004710-004176-0095

Do all the Frames extend to the top height in the Poop? *yes.* Raised Quarter Deck? ☒ Bridge House? ☒ Forecastle? *yes.*
 To what height do the Reverse Frames extend? *Main deck.*
 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 *W.T. Hinged Doors.*
 Is the Poop or Raised Quarter Deck connected with the Bridge House? *no.* 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? *.40* and Coaming plate? *.44*
 Give scantlings and spacing of the Stiffeners *6 x 3 x 3 x .46 [spaced 30"*
 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? ☒
 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~~ *Steel* or Wood Bulk'd. at after end? *yes, steel.*
 Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or 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? ☒ 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.*

| Position and Size. | N ^o . 15.9 x 16.0 | N ^o . 22.3 x 16.0 | N ^o . 3.15.0 x 8.0 | N ^o . 4.20.0 x 9.0 | N ^o . 5.4.6 x 16 | N ^o . 6.20 x 16 |
|---|------------------------------|------------------------------|-------------------------------|-------------------------------|-----------------------------|----------------------------|
| Item. | Ship. Rule. | Ship. Rule. | Ship. Rule. | Ship. Rule. | Ship. Rule. | Ship. Rule. |
| COAMING. Height above top of DECK | 32 1/2 | Same as | Same as | 32 1/2 | Same as | Same |
| Thickness { Sides..... | .50 | N ^o . 1 | N ^o . 1 | .44 | N ^o . 1 | as N ^o . 1 |
| Ends..... | .50 | | | .44 | | |
| SHIFTING BEAMS OR WEB PLATES. Number..... | 2 | 5 | 2 | 1 | 3 | 3 |
| Section and Scantlings..... | 15-7 1/2 x .34 | 13-7 x .34 | 12-6 x .32 | 15 x .34 | 11 1/2-6 x .30 | 12-6 x .30 |
| Material..... | 3 1/2 x 3 x .42 | 3 1/2 x 3 x .42 | 4 x 3 x .44 | 20 1/2 x 3 1/2 x .20 | 3 1/2 x 3 x .42 | 3 1/2 x 3 x .42 |
| * FORE AND AFTERS. Number..... | | | | | | |
| Section and Scantlings..... | | | | | | |
| Material..... | | | | | | |
| HATCHES Thickness..... | 3 | 3 | 3 | 3 | 3 | 3 |
| Remarks..... | | | | | | |

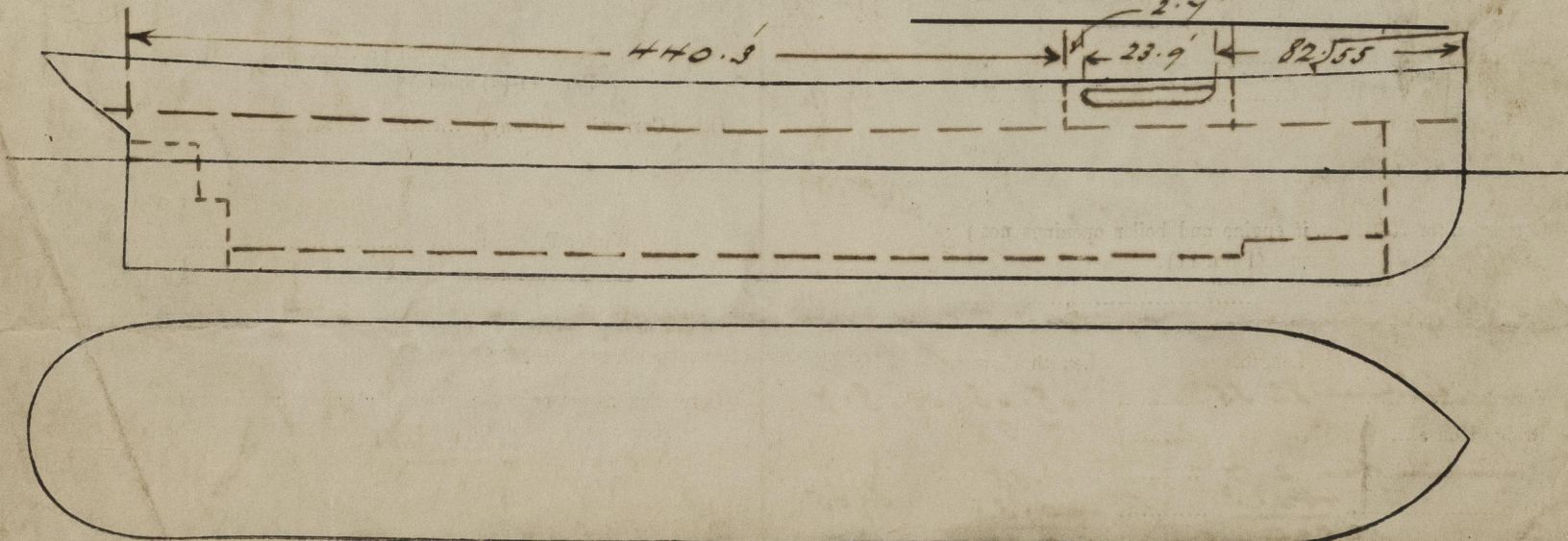
* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.

(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~~ *Poop* Sheerstrake? *1.10* Strake between Main and ~~Bridge~~ *Shelter* Sheerstrakes? *.80*

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 *24.0* *23.9'*
 Area of Freeing Ports required by Para. 11 (e) each side of vessel = *8.89* Sq. ft.
 Ft. Tenths. Ft. Tenths. No. *3.33* x *1.5* x *2* = *10* Sq. ft.
 (each side of vessel)
 Total deficiency or excess = *1.11* 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 *Lowest side scuttle lowest edge 5.2 above poop deck; oil filling door (W.T.) 12" above upper deck to sill.*
 Builder's name and yard number *Sin. W. G. Armstrong, Whitworth & Co. N^o. 9644*
 Names of sister vessels *S/S Moldavia*
 Owners *P. & O. Steam Navigation Co.*
 Address *...*

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