

EXT Lloyd's Register of Shipping.

3 JUN 1932 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 Lisbon.
Date of Survey 6 Oct. 1926.
Name of Surveyor

Ship's Name. S.S. "MIRANDELLA"
Port of Registry and Nationality. Lisbon Portuguese
Official Number. ✓
Gross Tonnage. 5105
Date of Build. 1906
Particulars of Classification. 100A.1. Contemplated.

Number in Register Book

| Registered dimensions from Ship's Register. | LENGTH. | BREADTH. | DEPTH. | UNDER DECK TONNAGE. |
|---|---------------|---|--|---------------------|
| | <u>409.3</u> | <u>52.7</u> | <u>28.0</u> | <u>4752</u> |
| Length on LOADLINE. | <u>410.79</u> | Frame Depth <u>7 1/2</u> Rule " <u>6</u> " <u>1 1/4</u> " <u>- .29</u> | Ceiling <u>fixed</u> Sheer <u>+ .39</u> | Peak Tanks |
| CORRECTED DIMENSIONS. | <u>410.79</u> | <u>52.41</u> | <u>28.39</u> | <u>4752</u> |

Moulded Depth as measured..... 30' - 10 1/2"
Addition for Keel below base line for draught record..... 2 1/2 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..... | <u>410.79</u> |
| Length in Table | <u>370.50</u> |
| Difference | <u>40.29</u> |
| Correction for 10ft., Table A. | <u>1.575</u> Table C. |
| × Difference divided by 10 | <u>6.34</u> (if required.) |
| If 1/10ths length covered divide by 2 | <u>3.17 + 3 1/4"</u> |

3" Wood deck fitted in Well.

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered -
Thickness of usual wood deck, less stringer 3 1/2"
Mean effective wood deck 3 1/4" - 1/4"

CORRECTION FOR ROUND OF BEAM.

| | |
|---|----------------------|
| Breadth at Gunwale amidships..... | <u>52 - 8 1/2</u> |
| Round of Beam | <u>12.5</u> |
| Normal round..... | <u>13 - 18</u> |
| Difference | <u>-68 ÷ 2 = -34</u> |
| Proportion of Deck uncovered (Para. 19) | <u>.245</u> ✓ |

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

Co-efficient of fineness..... .777
Any modification necessary } C.D.B.
[Para. 4 (a) to (e)]* }
Co-efficient as corrected76.

Sheer { Stem..... 94.5
at { Sternpost ... 42.5 } 187 ÷ 2 = 68.5 Mean

Sheer at 1/2 of the length from { Stem 55.5
Sternpost 16.0 } 71.5 ÷ 2 = 35.75 Mean
+ .55 = 65.0

Gradual mean Sheer 65.00
Standard mean Sheer [Table, Para. 18] 51.08 Correction
Difference..... 13.92 ÷ 4 = 3.48
§ If limited as Para. 18 (f) - 3 1/2"

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

ALLOWANCE FOR DECK ERECTIONS:—

| | |
|---|-----------------|
| Freeboard, Table C..... | <u>4" 8 1/4</u> |
| 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) } | <u>4" 6 3/4</u> |
| Difference | <u>2" 10</u> |
| Percentage as below..... | <u>63.25%</u> |
| | <u>21.5</u> |

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) } ✓
Allowance for Deck Erections 1' - 9 1/2"

| | Length. | Length allowed. | Height. |
|--|---------------------|-----------------|-------------|
| Forecastle..... | <u>49' - 9 1/2"</u> | <u>49.79</u> | <u>8.0"</u> |
| Bridge House | | | |
| ↑ Raised Qr. Dk..... | <u>26' - 4 1/4"</u> | <u>260.37</u> | <u>8.0"</u> |
| Poop..... | | | |
| Total | | <u>310.16</u> | <u>.755</u> |
| Length of Ship | | <u>410.79</u> | |
| Corresponding percentage (Para. 11, 12, 13, or 14) } | <u>63.25%</u> | | |

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

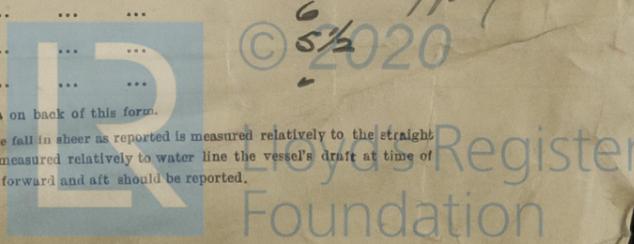
| | |
|---|-------|
| Fresh Water Line above centre of Disc | 6 1/2 |
| Indian Summer Line " " " | 6 |
| Winter Line below " " " | 5 1/2 |
| Winter North Atlantic Line " " " | 5 |

16 NOV 1926

§ 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.

† 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.

RECEIVED 7 - MAY 1927



00279-00288-0230

Do all the Frames extend to the top height in the Poop? *Yes* Raised Quarter Deck? *-* 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 *Storm Boards in riveted channels*
 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 *Portable plates secured to angles riveted to bulkhead & stiffeners by 3/2" bolts spaced not more than 6"*
 What is the thickness of the Bridge Front plating? *3/20* and Coaming plate? *1/20*
 Give scantlings and spacing of the Stiffeners *[7 x 3 3/8 x 10/20 spaced 24"-25 1/4" also 3 webs 15 3/8 x 7/10*
 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* *Poop & Bridge Combined*
 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? *Yes*
 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? *Yes*
 Give thickness of plating; scantlings and spacing of Stiffeners
 What is the height of the exposed Casings? *Engine 8'-0"* Are suitable means provided for closing all openings in them in bad weather? *Steel hinged storm cover*
 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*
Coal Hatch on Bridge

| Position and Size. | No. 1. 26-10 x 14-1 <i>Upper Deck</i> | | No. 2. 31-3 x 17-1 <i>Upper Deck</i> | | No. 3. 17-10 x 13-9 | | No. 3. Bridge <i>31-3 x 14-8-10</i> | | No. 4. Bulkhead <i>31-3 x 14-8-10</i> | |
|-----------------------------------|--|---------------------------------------|---|--------|---------------------------------|--------|--|--------|--|-------|
| | Ship. | Rule. | Ship. | Rule. | Ship. | Rule. | Ship. | Rule. | Ship. | Rule. |
| COAMING. Height above top of DECK | 33" | | 33" | | 34" | | 34" | | 34" | |
| Thickness | Sides..... | 1/20 | 1/20 | | 1/20 | | 1/20 | | 1/20 | |
| | Ends..... | 1/20 | 1/20 | | 1/20 | | 1/10 | | 1/20 | |
| SHIFTING BEAMS OR WEB PLATES. | Number..... | 3 | 3 Same | | 2 Same | | 3 | | 3 | |
| | Section and Scantlings..... | 3 x 3 x 9/20 | as | | as | | Same | | 3 x 3 x 9/20 | |
| | Material..... | 4 1/2 x 10/20 3 x 1/2 Round Steel. | No. 1 | | No. 4 | | No. 4 | | 4 1/2 x 9/20 3 x 1/2 round. | |
| * FORE AND AFTERS. | Number..... | 3 | 3 | | 3 | | 3 | | 3 | |
| | Section and Scantlings..... | Centre 9 1/2 x 7 1/2 Wood | Centre 11 x 7 1/2 wood | | Centre 10 x 7 1/2 Wood | | Centre 10 x 7 1/2 Wood | | Centre 10 x 8" Wood | |
| | Material..... | Sides T-bar 7 x 4 7/8 x 9/20 | Sides T-bar 7 x 4 7/8 x 9/20 | | Sides T-bar 7 x 4 7/8 x 9/20 | | Sides T-bar 7 x 4 7/8 x 9/20 | | Sides T-bar 7 x 4 7/8 x 9/20 | |
| HATCHES Thickness..... | 2 3/4" | 2 3/4" | | 2 3/4" | | 2 3/4" | | 2 3/4" | | |
| 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.*

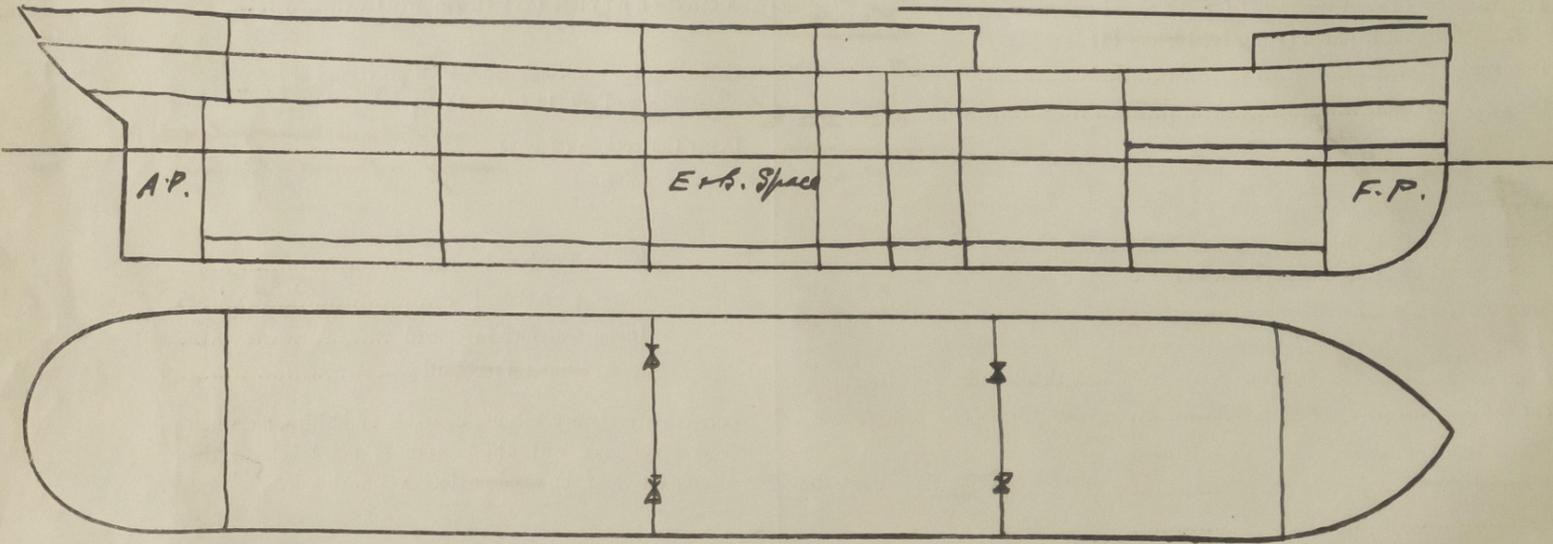
Length of Bulwarks in well *100.62*

Area of Freeing Ports required by Para. 11 (e) each side of vessel = *20.12* Sq. ft.

Ft. Tenths. Ft. Tenths. No. } Freeing Ports (each side of vessel) = *21.87* Sq. ft.

2.5 x *1.75* x *5*

Total deficiency or excess = *1.75* 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 *Rachen Vulkaw.*

Names of sister vessels *-*

Owners *Soc. General de Comercio Industrial y Transportes Ltd.*

Address *-*

Fee £ *Received by me*

