

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.—STEAM SHIPS.

Particulars relating to ~~all~~ STEAM SHIPS ~~either flush decked, or with~~
~~GALLANT FORECASTLES, SHORT POOPS AND BRIDGE HOUSES DISCONNECTED, OR~~
~~WHICH TOP GALLANT FORECASTLES HAVING LONG POOPS, OR RAISED QUARTER DECKS~~
~~CONNECTED WITH BRIDGE HOUSES, OR OTHERWISE.~~

Port of Survey BILBAO
Date of Survey 8th April 1920
Name of Surveyor M. S. England

Ship's Name SHIP OF ARMILLEROS DEL NERVIÓN Port of Registry BILBAO Official Number ✓ Gross Tonnage 3716.92 Date of Build 1919-20 Particulars of Classification CONTEMPLATED BY 100A1 LLOYD'S CLASS.
Number in Register Book ✓

Length	Breadth	Depth	Under Deck Tonnage
99.26	14.36	6.72	2922
325.66	47.12	22.03	
99.26	14.36	6.72	2922
325.65	46.54	22.51	2922

Efficient of fineness..... .856
Modification necessary {
Para. 4 (a) to (e)]* C.D.B.
Efficient as corrected Highest .82

Stem..... 2.300 M. { 90.5 } 136.6
Sternpost 1.173 { 46.1 } $\div 2 = 68.3$ Mean
Stem at $\frac{1}{2}$ of the length from Sternpost 1.050 { 41.25 } 24.5
Sternpost .622 { 65.75 } $\div 2 = 32.87$ Mean
Actual mean Sheer 59.76
Standard mean Sheer [Table, Para. 18] 42.56 Correction
Difference..... 17.20 $\div 4 = -4\frac{1}{4}$
If limited as Para. 18 (f)

Rise in Sheer {
From amidships {
Para. 18 (e)] {
At front of bridge house.....
At after end of forecastle

Fall in Sheer {
Para. 18 (d)] {
Length uncovered Correction

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C..... 2 .. $7\frac{1}{2}$
Correction for Length, if required (Para. 12, 13, and 14) +2
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) 5 .. $7\frac{1}{2}$
Difference 2 .. 10
Percentage as below..... 33.52%
11.4

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11)
Allowance for Deck Erections 11\frac{1}{2}

Length.	Length allowed.	Height.
38'-6" <u>SEE SKETCH.</u>	41.2	8'-0"
Bridge House..... <u>99.9</u>	99.75	8'-0"
Raised Qr. Dk.....		
Top..... <u>28.2</u>	28.16	8'-8"
Total	169.11	
Length of Ship	325.65	

Corresponding percentage {
Para. 11, 12, 13, or 14} 33.52%

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 " " "

Moulded Depth as measured..... 7.58 M.
24 .. $10\frac{1}{4}$
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..... 99.26 325.65
Length in Table 298.25
Difference 27.40
Correction for 10ft., Table A. 1.3 Table C. .7
 \times Difference divided by 10 3.56 (if required.) 1.918
If $\frac{1}{10}$ ths length covered divide by 2 +3\frac{1}{2} +2

CORRECTION FOR IRON DECK.

Proportion covered, if less than $\frac{1}{10}$ ths length covered519
Thickness of usual wood deck, less stringer 3\frac{1}{2} -1\frac{3}{4}

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... 14.188 46'-6"
Round of Beam 300 $\frac{1}{4}$ 11\frac{3}{4}
Normal round..... 11\frac{3}{4}
Difference $\div 2 =$
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 5 .. $8\frac{1}{4}$
Correction for Sheer -4\frac{1}{4}
Correction for Length +3\frac{1}{2}
Allowance for Deck Erections 11\frac{1}{2}
Correction for Round of Beam.....
Correction for fall in Sheer (if any).....
Correction for Iron Deck (if required) -1\frac{3}{4}
Additions for non-compliance with provisions of {
Para. 11 (d) and (e)] {
Other Corrections (if any)

Winter Freeboard 4 .. $6\frac{1}{4}$
Summer Freeboard 4 .. 2
Indian Summer Freeboard 3 .. $9\frac{3}{4}$
N. A. Winter Freeboard 4 .. $8\frac{1}{4}$

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\frac{3}{4}

Winter Freeboard from deck line 4 .. 8
Summer " " " 4 .. $3\frac{3}{4}$
Indian Summer " " " 3 .. $11\frac{1}{2}$
N. A. Winter " " " 4 .. 10

Winter Freeboard from deck line 4 .. $3\frac{1}{2}$
Summer " " " 5
Indian Summer " " " 4
N. A. Winter " " " 4\frac{1}{2}
Winter North Atlantic Line " " " 6\frac{1}{2}

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 should also be reported. The usual load draft forward and aft should be reported.

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17 MAR 1922

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27 JAN 1922

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29 AUG 1922

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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.*
 To what height do the Reverse Frames extend? *Bulk 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? *No.* Has the Bridge House an efficient Bulkhead at the fore end? *Yes.*
 Give particulars of the means for closing the openings in Bulkhead *No openings.*
 What is the thickness of the Bridge Front plating? *11 7/8* and Coaming plate? *11 7/8*.
 Give scantlings and spacing of the Stiffeners *203 x 88 x 11 7/8. BULK ANGLES SPACED 750 APART.*
 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? *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, 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? *Yes.*
 Give thickness of plating; scantlings and spacing of Stiffeners
 What is the height of the exposed Casings? *Yes.* Are suitable means provided for closing all openings in them in bad weather? *Steel 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.*

Position and Size.	N°1 HATCH 7'440 x 5'480	N°2 HATCH 7'440 x 5'480	N°3 HATCH 3'720 x 5'480	N°4 HATCH 7'440 x 5'480	N°5 HATCH 7'440 x 5'480
Item.	Ship. Rule.	Ship. Rule.	Ship. Rule.	Ship. Rule.	Ship. Rule.
Height above top of DECK	850 7/8	850	457	850	850
COAMING					
Thickness	Sides 11 1/2	11 1/2	11	11 1/2	11 1/2
Ends 11 1/2					
SHIFTING BEAMS OR WEB PLATES					
Number	5 MEAS	5	2	5	5
Section and Scantlings	7" PLATE 30 x 180 x 9	SAME AS N°1	7" PLATE 30 x 153 x 7 1/2	SAME AS N°1	SAME AS N°1
Material	STEEL	STEEL	STEEL	STEEL	STEEL
* FORE AND AFTERS					
Number					
Section and Scantlings					
Material					
HATCHES Thickness	70 7/8	70	70	70	70
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? *No side lights to effect the fore and*
 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 =

Ft. Tenths. Ft. Tenths. No.

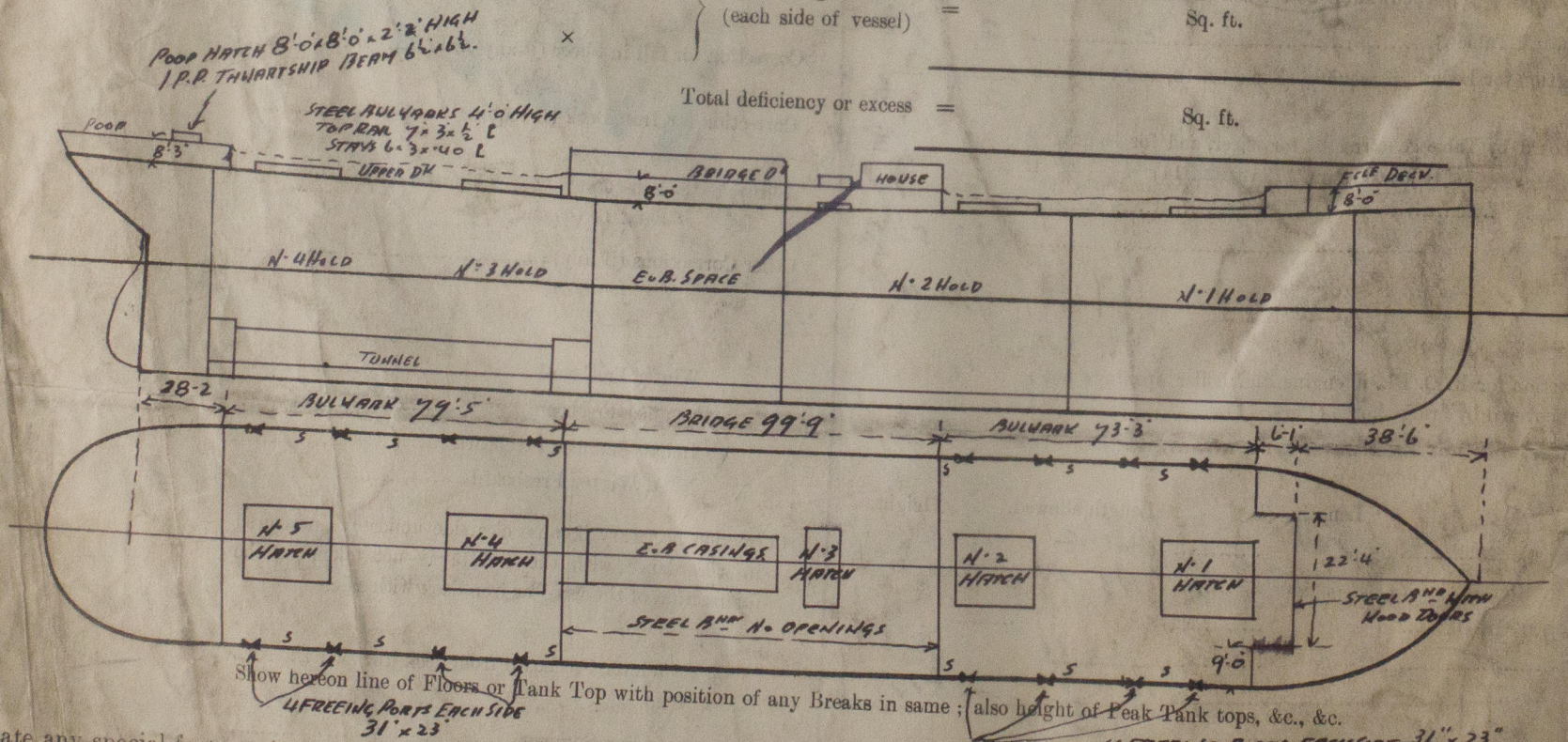
Freeing Ports (each side of vessel) =

Total deficiency or excess =

Sq. ft.

Sq. ft.

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.

4 FREEING PORTS EACH SIDE 31" x 23"

State any special features in the construction of the Vessel.

This vessel has been built in accordance with approved plans and Society Rules. We shall be pleased to receive 3 English finished certificates, and the verification of marking form will be sent later when the marks are verified. This vessel is built with a single deck but in other respects is a motor ship to the terms No 13 and 14. See Bulletin report No 5348, dated 14-1-19 and 5513 Report.
 Owners *COMPANIA AUXILIAR MARITIMA BILBAO.*

Address

Fee £ 250 pounds

Received by me *M. Hylton* 8-4-20



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