

25 APR 1928

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 Newcastle-on-Tyne

Date of Survey April 1928

Name of Surveyor J. H. Mebeli.

Ship's Name. <u>HULDA THORSEN</u> <i>Herbert Thesen ex Woodburn</i>	Port of Registry and Nationality. <u>Helsingfors</u> <i>Finland</i>	Official Number. <u>2404</u>	Gross Tonnage. <u>2404</u>	Date of Build. <u>1910-11</u>	Particulars of Classification. <u>+100-A1.</u>
Number in Register Book <u>23987.</u>					

Registered dimensions from Ship's Register.	LENGTH. <u>302.9</u>	BREADTH. <u>43.2</u>	DEPTH. <u>19.9</u>	UNDER DECK TONNAGE. <u>2193</u> <u>464.</u>
Length on LOADLINE.	<u>302.9</u>	Frame Depth Rule <u>5 3/4</u> <u>5 1/2</u> <u>5 1/2</u>	Ceiling <u>fitted</u> Sheer <u>+ .87</u>	Peak Tanks <u>Keel</u>
CORRECTED DIMENSIONS.	<u>302.9</u>	<u>42.52</u>	<u>20.74</u>	<u>2198.0</u>

Moulded Depth as measured..... 22 - 4 1/2

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

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

CORRECTION FOR LENGTH

Length of Ship on Loadline.....	<u>302.9</u>
Length in Table	<u>268.5</u>
Difference	<u>34.4</u>
Correction for 10ft., Table A.	<u>1.2</u> Table C. <u>.6</u>
× Difference divided by 10	<u>4.13</u> (if required.) <u>2.06</u>
If 1/10ths length covered divide by 2	<u>+ 4 1/4</u> <u>+ 2</u>

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered	<u>.4517</u>
Thickness of usual wood deck, less stringer	<u>3 1/2</u> <u>- 1 1/2</u>

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships.....	<u>43.0</u>
Round of Beam	<u>10 3/4</u>
Normal round.....	<u>10 3/4</u>
Difference	<u>1</u> ÷ 2 =
Proportion of Deck uncovered (Para. 19)	<u>1</u>

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

Co-efficient of fineness..... .82

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

Co-efficient as corrected80

Sheer { Stem..... 93 } 144 ÷ 2 = 72.0 Mean
 at { Sternpost ... 51 } 36 31.53
.87

Sheer at 1/2 of the length from { Stem 57 } 79 ÷ 2 = 39.5 Mean
 { Sternpost 28 } 41.82
41.82 ÷ .65 = 41.82

Gradual mean Sheer

Standard mean Sheer [Table, Para. 18]

Difference..... 31.53 ÷ 4 = 7.88

§ If limited as Para. 18 (f)

Rise in Sheer { At front of bridge house..... ✓ }
 from amidships { 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>1 - 11</u>
Correction for Length, if required (Para. 12, 13, and 14)	<u>+ 2</u>
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) }	<u>2 - 1</u>
Difference	<u>44 - 4 3/4</u>
Percentage as below.....	<u>28.62%</u>
	<u>4.94</u>

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

Allowance for Deck Erections - 8"

	Length.	Length allowed.	Height.
Forecastle.....	<u>34.0</u>	<u>34.0</u>	<u>7.0</u>
Bridge House	<u>78.0</u>	<u>78.0</u>	<u>7.0</u>
† Raised Qr. Dk.	-	-	-
Poop.....	<u>24.84</u>	<u>24.84</u>	<u>7.0</u>
Total		<u>136.84</u>	<u>.4517</u>
Length of Ship	<u>302.9</u>		
Corresponding percentage (Para. 11, 12, 13, or 14) }	<u>28.62%</u>		

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

27 APR 1928

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

Freeboard, Table A	<u>44 - 8 1/2</u>
Correction for Sheer	<u>- 8</u>
Correction for Length	<u>44 - 0 1/2</u>
Allowance for Deck Erections	<u>+ 4 1/4</u>
Correction for Round of Beam.....	<u>44 - 4 3/4</u>
Correction for Steel Deck (if required)	<u>- 8</u>
Additions for non-compliance with provisions of Para. 11 (d) and (e) †	<u>3 - 7 1/4</u>
Other Corrections (if any)	<u>- 1 1/2</u>
Winter Freeboard	<u>3 - 7 1/4</u>
Summer Freeboard	<u>3 - 3 3/4</u>
Indian Summer Freeboard	<u>3 - 0 1/4</u>
N. A. Winter Freeboard	<u>3 - 9 1/4</u>

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.

Winter Freeboard from deck line	<u>3 - 9</u>
Summer " " " "	<u>3 - 5 1/2</u>
Indian Summer " " " "	<u>3 - 2</u>
N. A. Winter " " " "	<u>3 - 11</u>

† If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible.

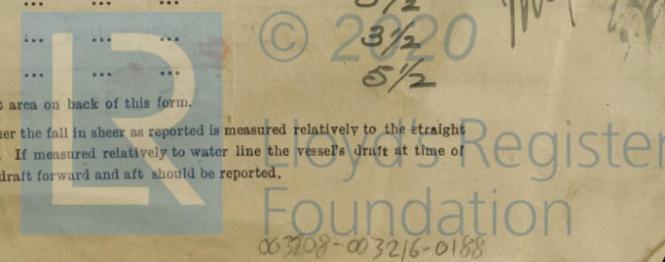
† In vessels obtaining an allowance for deck erections under Para. 11 where the sheer drops abaft amidships the height of the R.Q.D. is to be taken from the level of the top of the amidship beam.

§ 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.

Telegung vorstehender Angaben wird die Tiefadelinie obigen Dampfers



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 framing*
 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 *Weather boards in Riveted Channels*
 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 *2-hinged steel timber posts 27"x27" six lugges - Satisfactory*
 What is the thickness of the Bridge Front plating? *.35* and Coaming plate? *.40*
 Give scantlings and spacing of the Stiffeners *7/2 x 3 x .40" B. ai. @ 29"*
 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? *Weather boards in riveted Channels*
 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 *.25; coaming .44; Stiffeners 3x2 1/2 x .50. OAs @ 36" & 24"*
 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: *Yes*

Position and Size.	No 1: 22'-3" x 15'-10"		No 2: 24'-0" x 15'-10"		No 3: 24'-1 1/2" x 15'-10"		No 4: 24'-0" x 16'-0"		Ship.	Rule.
	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.		
COAMING	Height above top of DECK	37"-40"	37"-40"	42"-45"	42"-45"					
	Thickness	Sides	.44	.44	.44	.44				
		Ends	.40	.40	.37	.37				
SHIFTING BEAMS OR WEB PLATES	Number	2 webs	do	do	do					
	Section and Scantlings	30-39" x .38"	30-39" x .38"	36-39"	36-39"					
	Material	4 Angles 3x3x.33-steel	do	do	do					
* FORE AND AFTERS	Number	Centre 20a. Bulk	11x50" with 2 top angles 3x3x.50.	7/2						
	Section and Scantlings	2 Side 10as (1041.5)	7 1/2 x 3 x .46. Bulk angle (Some hot worn)							
	Material	Steel								
HATCHES	Thickness	2 1/2. W. Wood	do	do	do					
Remarks										

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

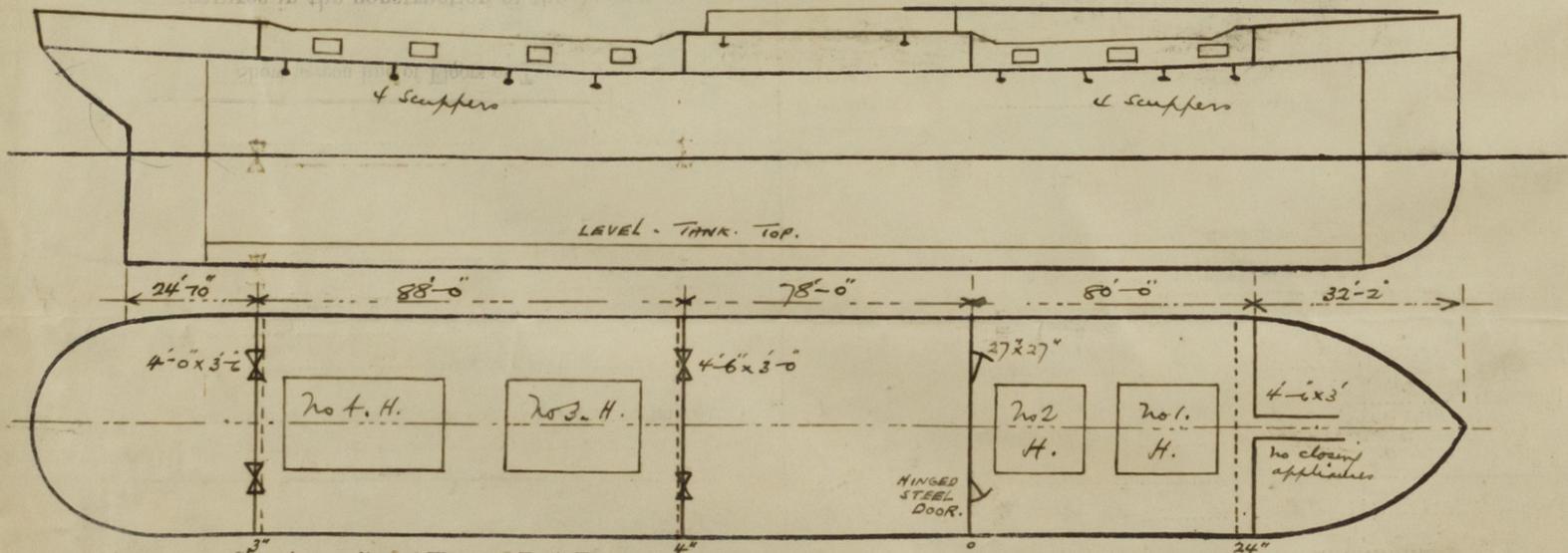
(If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the tables, state vertical distance from top of deck at side amidships to lower edge of lowest side scuttle.) ✓

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 $88 + 80 = 168'-0"$
 Area of Freeing Ports required by Para. 11(e) each side of vessel = 33.60. Sq. ft.
 Ft. Tenths. Ft. Tenths. No. } Freeing Ports = 22.17 Sq. ft. } hot for Reg T. Copy.
 FOR² 2.5 x 1.267 x 3 } (each side of vessel)
 AFT. 2.5 x 1.267 x 4 }
 Total deficiency or excess = 11.23 Sq. ft.



Show hereon line of Floors of 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 *None*

Builder's name and yard number *Blyth Shipbuilding Co. No 102 (Built 1900-11)*

Names of sister vessels *✓*

Owners *Gustaf B. Thorden*

Address *Helsingfors, Norway*

Fee £ *6 : 8 : 4* Received by me *30/4/28*

Applied for *24 APR 1928*

