

Regular 29892
Rpt. C.11.

Index. No. 29717
(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

20 OCT 1932

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having Awning deck

(Type of Superstructures.)

Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
"ARGO"	Finnish Helsingfors	559	1818 1025 net 3 mo	1921

Moulded Dimensions: Length 71.623 Breadth 11.20 Depth 8.382 net.

Moulded displacement at moulded draught = 85 per cent. of moulded depth 4436 tons

Coefficient of fineness for use with Tables .769

Port of Survey Helsingfors

Date of Survey 13th Oct. 1932

Name of Surveyor Oliver Tykela

Particulars of Classification * 100 A 1
Awng. dk. with freeboard
S.S. Rot. No 2-29 ✓

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth <u>8381/2</u>	(a) Where D is greater than Table depth (D-Table depth) R = <u>8.33 (8.394 - 4.776) 18.088 = + 545 %</u>	Moulded Breadth (B) <u>112002</u>
Stringer plate <u>12 1/2</u>	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$ <u>224</u>
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	✓	Ship's Round of Beam = <u>280</u>
Depth for Freeboard (D) = <u>8394</u>	If restricted by superstructures ✓	Difference <u>229</u>
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{5}{4} = -1 \frac{1}{4}$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed					
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
F'cle enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total					

Standard Height of Superstructure

" " R.Q.D.

Deduction for complete superstructure

Percentage covered $\frac{S}{L} =$

" " $\frac{S_1}{L} =$

" " $\frac{E}{L} =$

Percentage from Table, Line A.
(corrected for absence of forecastle (if required))

Percentage from Table, Line B.
(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction =

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	851	1		851	4.66	175	175	1	175
1/4 L from A.P.	378	4		1512	4.56	12	12	4	48
1/2 L "	94	2		188	4.56			2	
Amidships		4			4.57			4	
3/4 L from F.P.	189	2		378	4.60			2	
3/4 L "	756	4		3024	4.64	40	40	4	160
F.P.	1701	1		1701	5.16	229	229	1	229
Total				7654					612

Mean actual sheer aft = deficient

Mean standard sheer aft

Mean actual sheer forward = deficient

Mean standard sheer forward

Length of enclosed superstructure forward of amidships = } Flush Deck

" " aft of " =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{7042}{18} (.75) = + 294 \%$

If limited on account of midship superstructure. ✓

If limited to maximum allowance of 1 1/2 ins. per 100 ft. ✓

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	836
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient	891
Ft.	Δ =		
Depth to Freeboard Deck =	Tons per inch immersion at summer load water line	Depth Correction	545
Summer freeboard =	T =	Deduction for superstructures	-
Moulded draught (d) =	Deduction = $\frac{\Delta}{40 T}$ inches	Sheer correction	294
Deduction for Tropical freeboard and addition for		Round of Beam correction	-
Winter freeboard = $\frac{d}{4}$ inches =		Correction for Thickness of Deck amidships	-
Addition for Winter North Atlantic Freeboard (if required) =		Other corrections, scantlings, etc	843
		1682	1
		Summer Freeboard =	2572

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, wood, Steel, Deck:— 2572 %

Tropical Fresh Water Line above Centre of Disc	Tropical Fresh Water Freeboard
Fresh Water Line " "	Fresh Water " "
Tropical Line " "	Tropical " "
Winter Line below " "	Winter " "
Winter North Atlantic Line " "	Winter North Atlantic " "

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Particulars of fiddle, funnel and ventilator coverings:— Fiddle openings fitted with hinged steel covers. Funnel, and 4 ventilators in good condition, placed on the engine casing 2.8 high.

Particulars of Flush Bunker Scuttles:— 2 flush bunker scuttles of cast iron fixed with
brazon et joints in good condition.


Particulars of Companionways:— Access to the Tween deck forward through a steel casing.
1.35 x 0.85, height 1.8 met., plating 6.52, sill 0.5 m., steel doors 1270 x 680 x 72 fitted
with hinges and being operated from both sides. Access to a store room
aft through a steel casing 0.75 x 0.75 m., height 1.67, plating 72, sill 0.5 m.,
doors 1090 x 510 x 6.52 being closed from outside only.
See also deckhouse aft.

Particulars of Ventilators in exposed positions on freeboard and superstructure decks :—

7 vent. on wing. dk.	$\phi = 190 \text{ mm}$	height = 700 mm	} all being closed by wood covers and tarpaulins.
6 " " " "	$\phi = 380 \text{ "}$	" = 850 "	
4 " " " "	$\phi = 270 \text{ "}$	" = 900 "	
2 " " " "	$\phi = 220 \text{ "}$	" = 850 "	

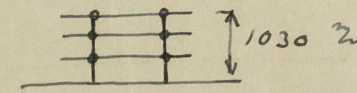
Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:—

7 air pipes $\phi = 6.52m$, height = 850 mm and being closed by wood plugs.

Particulars of Scuppers and Sanitary Discharge Pipes:— 10. Scuppers on each side 
4 Sanitary Discharge pipes, outlet above tween deck, fitted with
non-return valves.

Particulars of Side Scuttles:— All side scuttles fitted with hinged deadlights.

Particulars of Guard Rails :—



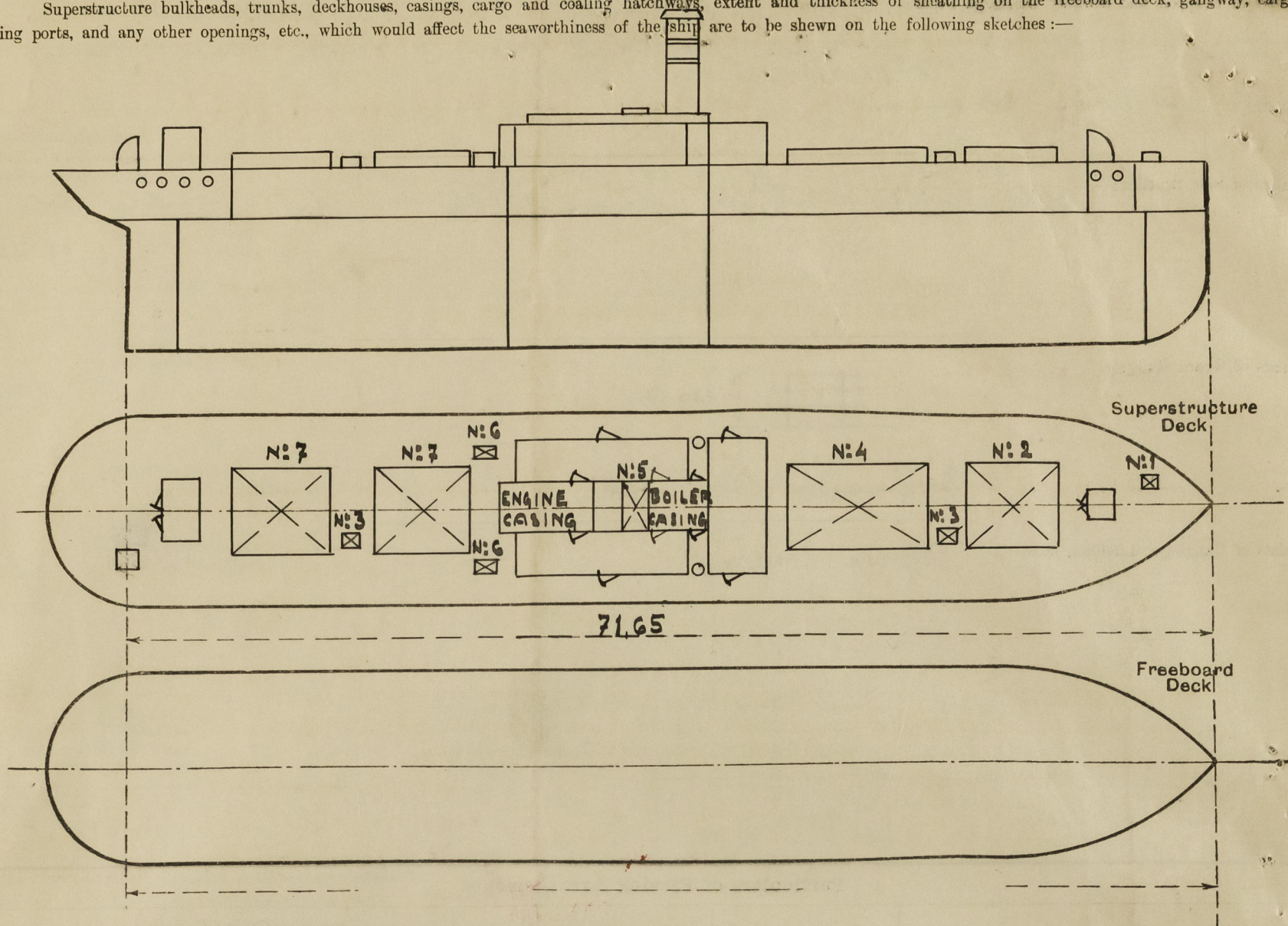
Bulwark Anecdotes.

Particulars of Gangways, Lifelines, etc. :— *None Filled.*

Particulars of Freeing Arrangements.						
	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well	None fitted.					
Forward Well						
State position of each freeing port } After Well :— (F. and A. position and height above deck edge) } Forward Well :— State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such :— Additional area where sheer is less than standard.						

Particulars of Superstructures, Trunks, Casings, Deckhouses.								
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead								
Raised Quarter Deck Bulkhead ...								
Bridge, After Bulkhead								
Bridge, Forward Bulkhead								
Forecastle Bulkhead								
Trunk, Aft								
Trunk, Forward								
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...								
Exposed Machinery Casings on Superstructure Decks ... Deckhouse	10	6.52	65x65x7	0.6	an top 300x300x6	2x1.0x0.64	0.47	2.81
Machinery Casings within Superstructure not fitted with Class I Closing Appliances ...	10	6.5	65x65x7	0.6	an top 300x300x6	4x1.6x0.6	0.40	2.81
Deckhouses on Flush Deck Ships	10	6.5	bulkhead 7	0.78	—	2x1.39x0.63	0.54	2.16
	10	6.5	65x65x7	0.6	—	2x1.47x0.75	0.49	2.0
Particulars of Closing Appliances (state if capable of being manipulated from both sides).								
Poop Bulkhead								
Raised Quarter Deck Bulkhead ...								
Bridge, After Bulkhead								
Bridge, Forward Bulkhead								
Forecastle Bulkhead								
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...								
Exposed Machinery Casings on Superstructure Decks ... Deckhouse	2 hinged steel doors operated from outside only							
Machinery Casings within Superstructure not fitted with Class I Closing Appliances ...	4	"	"	"	"	"	both sides	
Deckhouses on Flush Deck Ships	2	"	teak	"	"	"	"	
	4	"	"	"	"	"	"	

Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shewn on the following sketches:—



State any special features in the construction of the ship:— The sheer has been measured afloat, the draught being forward 3.76 met. and aft 3.83 met. The owners desires to have the freeboard computed in accordance with the Int. Load Line Convention or to have the old freeb. retained, which of these is more favourable. *W. J. L. M.*

The Finnish measuring authorities have attested the Register Tonnage follows: $\begin{cases} 1818 \text{ Gross} \\ 1025 \text{ Net} \end{cases}$

Builder's name and yard number *N. V. Machine fabriek en Scheepsw. van P. Smit jr. Rotterdam*
 Names of sister ships *"Regulus"*
 Owners *Finska Ångfartygs Abt. Helsingfors*
 Fee £ *9 : 7 : 0* Received by me

John Taylor



© 2020

Lloyd's Register
Foundation