Rpt. C.11 (Comp.).

Rufina 35341

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index. No. 3554
(For London Office only).

FEB -8 1936

16253

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
FURNESS S.B. Cos No 277 "REBECA"				

Port of Survey MIDDLESBROUGH.

Date of Survey WHILE BUILDING

Surveyor's Signature *Crichton*

Moulded Dimensions: Length 335' 0" Breadth 56' 0" Depth 14' 9½"

Moulded displacement at moulded draught = 85 per cent. of moulded depth   5606   tons

Coefficient of fineness for use with Tables

Particulars of Classification ✠ 100 A.1.
CARRYING PETROLEUM IN BULK CONTEMPLATED

Depth for Freeboard (D).

Moulded depth ... ... 14·791
Stringer plate ... ... ·037
Sheathing on exposed deck
$T\left(\dfrac{L-S}{L}\right)$ =

Depth for Freeboard (D) = 14·828

Depth correction.

(a) Where D is greater than Table depth
(D — Table depth) R =

(b) Where D is less than Table depth (if allowed)
(Table depth — D) R =

If restricted by superstructures

Round of Beam correction.

Moulded Breadth (B)   56' 0"
Standard Round of Beam = $\dfrac{B \times 12}{50}$ = 11·44
Ship's Round of Beam = 14
Difference   2·96
Restricted to
Correction = $\dfrac{\text{Diff}^2}{4} \times \left(1 - \dfrac{S_1}{L}\right)$ =

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	91·25		6·958		
„ overhang					
R.Q.D. enclosed	✓				
„ overhang	✓				
Bridge enclosed	✓				
„ overhang aft	✓				
„ overhang forward ...	✓				
F'cle enclosed	SEE SKETCH		6·958 TO 7·25 FOR.		
„ overhang					
Trunk aft ... ... }	SEE SKETCH		6·958		
„ forward ... } 3					
Tonnage opening aft ...					
„ „ forward					
Total					

Standard Height of Superstructure _____
„   „   R.Q.D. _____

Deduction for complete superstructure

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

„   „ $\dfrac{S_1}{L}$ =

„   „ $\dfrac{E}{L}$ =

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.		1		17·75		1	
⅛L from A.P. ...		4		·625		4	
²⁄₈L „ ...		2		·00		2	
Amidships ...		4		·00		4	
²⁄₈L from F.P. ...		2		·00		2	
⅛L „ ...		4		4·68		4	
F.P.		1		54		1	
Total ...							

Correction = $\dfrac{\text{Difference between sums of products}}{18} \left(·75 - \dfrac{S}{2L}\right)$ =

If limited on account of midship superstructure.

If limited to maximum allowance of 1½ ins. per 100 ft.

Mean actual sheer aft ÷ Mean standard sheer aft =

Mean actual sheer forward ÷ Mean standard sheer forward =

$\dfrac{\text{Length of enclosed superstructure}}{L}$ forward of amidships =

„   „   „   aft of „ =

Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.

Et.
Depth to Freeboard Deck =
Summer freeboard =
Moulded draught (d) =

Deduction for Tropical freeboard and addition for
Winter freeboard = $\dfrac{d}{4}$ inches =

Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line
Δ =
Tons per inch immersion at summer load water line
T =
Deduction = $\dfrac{\Delta}{40 \, T}$ inches =

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+	−
Depth Correction		
Deduction for superstructures		
Sheer correction		
Round of Beam correction ...		
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc. ...		
Summer Freeboard =		

For computation see attached from C.11.

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :—

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		

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002870 - 002875 - 0233

A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £ _to be charged_