Rpt. C.11 (Comp.).

For scuppers

Index No. **39008**

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

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build

Port of Survey ....

Date of Survey 29.11.47

Surveyor's Signature ....

Particulars of Classification Tanker

Moulded Dimensions : Length **464**   Breadth **61.5**   Depth **34**

E Stock

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

Coefficient of fineness for use with Tables .72 Say

DEPTH FOR FREEBOARD (D).

Moulded depth **34.0**

Stringer plate ... ... .08

Sheathing on exposed deck

$T\left(\dfrac{L-S}{L}\right) =$

Depth for Freeboard (D) = **34.08**

DEPTH CORRECTION.

(a) Where D is greater than Table depth
(D − Table depth) R =
$\left(\dfrac{34.08 - 30.93}{3.15}\right) \times 3 = +9.45''$

(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)

Standard Round of Beam = $\dfrac{B \times 12}{50}$ =

Ship's Round of Beam Say = Cambord

Difference

Restricted to

Correction = $\dfrac{\text{Diff}^e}{4} \times \left(1 - \dfrac{S_1}{L}\right)$ = Nil

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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	98				
" overhang					
R.Q.D. enclosed					
" overhang	42				
Bridge enclosed					
" overhang aft ...					
" overhang forward ...	52				
F'cle enclosed Eqer ...					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft ...					
" " forward ...					
Total	142				

Standard Height of Superstructure 7.1

"   " R.Q.D. .... 42.

Deduction for complete superstructure

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

"   " $\dfrac{S_1}{L}$ = +1.37

"   " $\dfrac{E}{L}$ = 32.37

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 = $42 \times .3237 = 13.6$

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	56.4	1		54		1	
⅙L from A.P. ...		4				4	
⅔L " ...		2				2	
Amidships ...		4				4	
⅔L from F.P. ...		2				2	
⅙L " ...		4				4	
F.P.		1	108			1	
Total ...			507.6				486

Correction = $\dfrac{\text{Difference between sums of products}}{18}\left(.75 - \dfrac{S}{2L}\right)$ = $\dfrac{21.6}{18} \times \dfrac{.75 - .2069}{.5431}$ = $+.65$

If limited on account of midship superstructure.   If limited to maximum allowance of 1½ ins. per 100 ft.

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

		Ft.
Depth to Freeboard Deck	=	34.0
Summer freeboard	=	6.46
Moulded draught (d)	=	27.54

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
$\triangle =$

Tons per inch immersion at summer load water line
$T =$

Deduction = $\dfrac{\triangle}{40\,T}$ inches
=

TABULAR FREEBOARD corrected for Flush Deck (if required) **78.70**

Correction for coefficient 1.40/1.31   **81.02**

	+	−
Depth Correction	9.45	
Deduction for superstructures ...		13.6
Sheer correction	.65	
Round of Beam correction ...		
Correction for Thickness of Deck amidships ...		
Other corrections, scantlings, etc. ...		
	10.10	13.6

− 3.50

Summer Freeboard = **79.52**

6.55

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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