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36239

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

Index. No. 36239
(For London Office only).

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
"IXIA" EX "HAGEN"			5988	1921

Port of Survey Hull

Date of Survey 1940 Mar 27, 28. ap. 1-12.

Surveyor's Signature W. J. Shields

Particulars of Classification 100 A1

Class Contemplated

Moulded Dimensions: Length 137.16 M 450' Breadth 17.76 M 58.26' Depth 9.2 M 30.18'

Moulded displacement at moulded draught = 85 per cent. of moulded depth not available tons

Coefficient of fineness for use with Tables _____

Depth for Freeboard (D).

Moulded depth	30.18 9.2
Stringer plate	.03 .008
Sheathing on exposed deck Focsle	.075
$T\left(\dfrac{L-S}{L}\right) =$	

Depth for Freeboard (D) = 30.21'

Depth correction.

(a) Where D is greater than Table depth
(D — Table depth) R =
$\dfrac{(30.21 - 30.00)\ 3}{.21} = + .63"$

(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)		58.26'
Standard Round of Beam = $\dfrac{B \times 12}{50}$	=	13.98"
Ship's Round of Beam	=	348 mm
Difference Deficiency		13.70" .28"
Restricted to		
Correction = $\dfrac{\text{Diff}^e}{4} \times \left(1 - \dfrac{S_1}{L}\right)$	=	$\dfrac{.28}{4}$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	✓				
„ overhang ...	✓				
R.Q.D. enclosed ...	✓				
„ overhang ...	✓				
Bridge enclosed ...	123.0 M	2440			
„ overhang aft	✓				
„ overhang forward	0.58	2440			
F'cle enclosed ...	20.2	2580			
„ overhang ...	0.58	2620			
Trunk aft ...	✓				
„ forward ...	✓				
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		54.7 10.6 M		1	
$\frac{1}{6}$L from A.P. ...		4		9.78		4	
$\frac{2}{6}$L „ ...		2		9.2		2	
Amidships ...		4		9.25		4	
$\frac{2}{6}$L from F.P. ...		2		9.7		2	
$\frac{1}{6}$L „ ...		4		10.9		4	
F.P.		1		12.25		1	
Total ...							

$\dfrac{\text{Mean actual sheer aft}}{\text{Mean standard sheer aft}} =$

$\dfrac{\text{Mean actual sheer forward}}{\text{Mean standard sheer forward}} =$

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

„ „ „ aft of „ =

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 $1\frac{1}{2}$ ins. per 100 ft.

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

	Ft.
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
△ =
Tons per inch immersion at summer load water line
T =
Deduction = $\dfrac{\triangle}{40\ T}$ 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 =

See attached form 89 B 20.4.40

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

Tropical Fresh Water Line above Centre of Disc	.13⅜"		Tropical Fresh Water Freeboard		4'- 4½" 9
Fresh Water Line „ „	7⅛"		Fresh Water		3'- 3⅛"
Tropical Line „ „	6¼"		Tropical		3'- 9⅜"
Winter Line below „ „	6¼"		Winter		3'- 10¼"
Winter North Atlantic Line „ ...			Winter North Atlantic		4'- 10¾"

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 _U.K. to South Africa_

Names of sister ships _not known_ No. 636

Builder's name and yard number _Vulcan Werke_ Yard no. not known. _Bochum Paraná_

Owners _Ministry of Shipping_

Fee £