

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, ~~SAILING SHIP~~, TANKER.)

41659

- 1 MAY 1954

Ship's Name S.S. TORNAGALEONES (EX-OTTO PETERSEN)	Official Number ✓	Nationality and Port of Registry CHILEAN VALPARAISO	Gross Tonnage 2865	Date of Build 1930	Port of Survey HAMBURG
Moulded Dimensions: Length 325.0 Breadth 48.25 Depth 22.25					Date of Survey 12th, 13th, 14th & 15th April 1954
Moulded displacement at moulded draught = 85 per cent. of moulded depth 6390 TONS @ (1000 kg) tons					Surveyor's Signature E. Hymn
Coefficient of fineness for use with Tables .742					Particulars of Classification B.S. *

DEPTH FOR FREEBOARD (D). Moulded depth 22.25 Ft. ... 22.25 Stringer plate (.37")03 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 22.28	DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = (22.28-21.67) 2.5 = +1.53" (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) 48.25 Standard Round of Beam = $\frac{B \times 12}{50} =$ 11.58 Ship's Round of Beam 12.25 = 12.25 Difference +1.67 Restricted to Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right) =$.67/4 x .1692 = -.02"
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	22.50	22.50	8.0		22.50
" overhang ... NIL					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...	216.66	216.66	8.0		216.66
" overhang aft ... NIL					
" overhang forward ... NIL					
F'cle enclosed ...	30.84	30.84	8.0		30.84
" overhang ... NIL					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...	270.00	270.00			270.00

Standard Height of Superstructure **6.75'**

" " R.Q.D. ✓

Deduction for complete superstructure **37.00"**

Percentage covered $\frac{S}{L} =$ **83.08**

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

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

Percentage from Table, Line A. & B. **79.12**
 (corrected for absence of fore-castle (if required))

Percentage from Table, Line B:
 (corrected for absence of fore-castle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = **37.00 x .7912 = -29.28"**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	42.50	1		42.50	49.0	49.00	1		49.00
$\frac{1}{2}$ L from A.P. ...	18.91	4		75.64	21.0	21.00	4		84.00
$\frac{2}{3}$ L " ...	4.68	2		9.36	6.0	6.00	2		12.00
Amidships ...	0	4		0	0	0	4		0
$\frac{2}{3}$ L from F.P. ...	9.35	2		18.70	13.0	13.00	2		26.00
$\frac{1}{2}$ L " ...	37.83	4		151.32	48.0	48.00	4		192.00
F.P. ...	85.00	1		85.00	108.0	108.00	1		108.00
Total ...				382.52					471.00

Mean actual sheer aft =

Mean standard sheer aft =

Mean actual sheer forward =

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = **> 1L**

" " aft of " = **> 1L**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ **$\frac{88.48}{18} (.75 - .4154) = -1.64"$**
 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.

Depth to Freeboard Deck = **22.28**

Summer freeboard = **1.88**

Moulded draught (d) = **20.40**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = **5.1" = 5"**
(127 mm)Addition for Winter North Atlantic Freeboard (if required) = **5" + 2" = 7" (178 mm)**

Deduction for Fresh Water.

EXT. Displacement in salt water at summer load water line

$\Delta =$

Tons per inch immersion at summer load water line

T =

Deduction = $\frac{\Delta}{40 T}$ inches

= $\frac{d}{4} = 5"$
(127 mm)

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+	-
Depth Correction	1.53	
Deduction for superstructures	-29.28	
Sheer correction	-1.64	
Round of Beam correction	-0.02	
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
	1.53	30.94
		-29.41

Summer Freeboard = **22.56**SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Water~~, Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc	...	258 mm	Tropical Fresh Water Freeboard	258 mm
Fresh Water Line	"	129 mm	Fresh Water	129 mm
Tropical Line	"	129 mm	Tropical	129 mm
Winter Line below	"	29 mm	Winter	29 mm
Winter North Atlantic Line	"	180 mm	Winter North Atlantic	180 mm

As Assigned by Danish Authorities

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 INTERNATIONAL

Names of sister ships ☒

Builder's name and yard number HELSINGÖRS JERNSK AND Msk. - ELSINORE.

Owners COMPANIA NAVIERA HAVERBECK SKALWEIT S.A.

Fee £ 40 - -



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