# 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 |
|---|---|---|---|---|
| S.S. "SUMMIT I" | 659 | LIBERIAN MONROVIA | 7875 | 1941-9 |

Port of Survey __Santos__

Date of Survey __4th and 5th September, 1956__

Surveyor's Signature ____

Particulars of Classification __+ 100 A 1__

Moulded Dimensions: Length __450' - 0"__ Breadth __63' - 6"__ Depth __34' - 6"__

Moulded displacement at moulded draught = 85 per cent. of moulded depth __17290__ ........ tons

Coefficient of fineness for use with Tables __.722__

### Depth for Freeboard (D).

Moulded depth ... ... ... ... __34'.6"__

Stringer plate ... ... ... __.78"__

Sheathing on exposed deck

$T\left(\dfrac{L-S}{L}\right) =$ __.06__

Depth for Freeboard (D) = __34.56__

### Depth correction.

(a) Where D is greater than Table depth

(D—Table depth) R= __4.56__

$(34.56 - 30.00) \ 3. = +13.68"$

(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) __63' - 6"__

Standard Round of Beam = $\dfrac{B \times 12}{50}$ = __15.24"__

Ship's Round of Beam = __16"__

Difference __.76"__

Restricted to

Correction = $\dfrac{\text{Diff}^{\circ}}{4} \times \left(1 - \dfrac{S_1}{L}\right) = \dfrac{.76}{4} \times .6017 = .11"$

### DEDUCTION FOR SUPERSTRUCTURES.

| | Mean Covered Length (S) | Equivalent Enclosed Length (S₁) | Height | Height Correction | Effective Length (E) |
|---|---|---|---|---|---|
| Poop enclosed ... ... | | | | | |
| " overhang ... ... | 103.00 | | 8'-0" | | |
| R.Q.D. enclosed ... | | | | | |
| " overhang | | | | | |
| Bridge enclosed ... ... | 40.00 | | 7'-10" | | |
| " overhang aft ... | | | | | |
| " overhang forward | | | | | |
| F'cle enclosed OPEN | 36.25 | | 7'-9" | | |
| " overhang ... ... | | | | | |
| Trunk aft ... ... | | | | | |
| " forward ... | | | | | |
| Tonnage opening aft ... | | | | | |
| " " forward | | | | | |
| Total ... ... | 179.35 | | | | |

Standard Height of Superstructure __7.5'__

" " R.Q.D. ____ __12__

Deduction for complete superstructure ____

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

" " $\dfrac{S_1}{L} =$ __39.83__

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

Percentage form Table, Line A. __30.83__
(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 = $42 \times .3083 = 12.95$

### SHEER CORRECTION.

| Station | Standard Ordinate | S M | Product | Actual Ordinate | Effective Ordinate | S M | Product |
|---|---|---|---|---|---|---|---|
| A.P. ... ... | 44" | 1 | | | | 1 | .44 |
| ⅙L from A.P. ... | 12" | 4 | | | | 4 | 48 |
| ⅔L " ... ... | 0" | 2 | | | | 2 | — |
| Amidships ... | 0" | 4 | | | | 4 | — |
| ⅔L from F.P. ... | 2" | 2 | | | | 2 | 4 |
| ⅙L " ... | 30" | 4 | | | | 4 | 120 |
| F.P. ... ... | 104" | 1 | | | | 1 | 104 |
| Total ... | | | 505 | | | | 320 |

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

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

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

" " aft of " =

Correction = $\dfrac{\text{Difference between sums of products}}{18}\left(.75 - \dfrac{S}{2L}\right) = \dfrac{185}{18}(.75 - .1992) = +5.66$

.5508

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 =

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

$\triangle =$ __16,182 T.__

Tons per inch immersion at summer load water line

$T =$ __56,22__

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

=

### TABULAR FREEBOARD corrected for Flush Deck (if required) __75.10__

Correction for coefficient. __1.402 / 136__ __77.42__

| | + | — |
|---|---|---|
| Depth Correction ... ... ... ... ... | 13.68 | — |
| Deduction for superstructures ... ... ... | — | 12.95 |
| Sheer correction ... ... ... | 5.66 | — |
| Round of Beam correction ... ... ... | — | .11 |
| Correction for Thickness of Deck amidships ... | | |
| Other corrections, scantlings, etc. ... ... | | |
| | 19.34 | 13.06 |

$+ 6.28$

Summer Freeboard = __83.70__

### 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 " | ... | ... |

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 *COMPANIA MARITIMA CENTRAL, S.A.* .........................................................

Fee £ *Cr.# 7,500.ᵐ* ...........................................................................................