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

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

| Ship's Name | Official Number | Nationality and Port of Registry | Gross Tonnage | Date of Build |
|---|---|---|---|---|
| TRAVELSTAR (ex DIGBY COUNTY) | | LIBERIAN MONROVIA | 7068 ~~7462~~ | 1943 |

Port of Survey  New York

Date of Survey  Revised computation for increased draught Oct. 1951

Surveyor's Signature  WJR.

Particulars of Classification  + 100 A1.

Moulded Dimensions: Length 457.35'  Breadth 56.90'  Depth 37.33'
(to centre of rudder stock)

Moulded displacement at moulded draught = 85 per cent. of moulded depth  16,600  tons

Coefficient of fineness for use with Tables  .77

### Depth for Freeboard (D).

Moulded depth ... ... ... 37.33
Stringer plate ... ... ... .06
Sheathing on exposed deck
$T\left(\dfrac{L-S}{L}\right)=$

Depth for Freeboard (D) = 37.39

### Depth correction.

(a) Where D is greater than Table depth
(D—Table depth) R=
$(37.39 - 27.52)\,3.00 = +28.71''$

(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)  56.90
Standard Round of Beam = $\dfrac{B \times 12}{50}$  13.66
Ship's Round of Beam =  14.00
Difference  .34
Restricted to
Correction = $\dfrac{\text{Diff}^e}{4} \times \left(1-\dfrac{S_1}{L}\right)$  $\dfrac{.34}{4} = -.09''$

## 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... ... | | | | | |
| " overhang aft ... | | | | | |
| " overhang forward | | | | | |
| F'cle enclosed ... ... | | | | | |
| " overhang ... | | | | | |
| Trunk aft ... ... | | | | | |
| " forward ... ... | | | | | |
| Tonnage opening aft ... | | | | | |
| " " forward | | | | | |
| Total ... ... | | | | | |

*Flush deck*

Standard Height of Superstructure ....................
" " R.Q.D. ....................
Deduction for complete superstructure ....................
Percentage covered $\dfrac{S}{L}=$
" " $\dfrac{S_1}{L}=$ } Nil
" " $\dfrac{E}{L}=$
Percentage form 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 = Nil

## SHEER CORRECTION.

| Station | Standard Ordinate | S M | Product | Actual Ordinate | Effective Ordinate | S M | Product |
|---|---|---|---|---|---|---|---|
| A.P. ... ... | 51.73 | 1 | 51.73 | 55.00 | 55.00 | 1 | 55.00 |
| ⅙L from A.P. ... | 23.02 | 4 | 92.08 | 23.25 | 23.25 | 4 | 93.00 |
| ⅓L " ... | 5.69 | 2 | 11.38 | 6.50 | 6.50 | 2 | 13.00 |
| Amidships ... | — | 4 | — | — | — | 4 | — |
| ⅓L from F.P. ... | 11.38 | 2 | 22.76 | 11.63 | 11.63 | 2 | 23.26 |
| ⅙L " ... | 46.04 | 4 | 184.16 | 46.75 | 46.75 | 4 | 187.00 |
| F.P. ... ... | 103.47 | 1 | 103.47 | 105.50 | 105.50 | 1 | 105.00 |
| Total ... | | | 465.58 | | | | 476.26 |

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

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

Correction = $\dfrac{\text{Difference between sums of products}}{18}\left(.75-\dfrac{S}{2L}\right) = \dfrac{10.68}{18} \times .75 = -.45''$

If limited on account of midship superstructure. No. Flush deck
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 = | 37.39 |
| Summer freeboard = | 9.79 |
| Moulded draught (d) = | 27.60 |

Deduction for Tropical freeboard and addition for
Winter freeboard = $\dfrac{d}{4}$ inches = 7"
Addition for Winter North Atlantic Freeboard (if
required)= Not assigned

### Deduction for Fresh Water.

Displacement in salt water at summer load water line
$\Delta =$
Tons per inch immersion at summer load water line
$T =$
Deduction = $\dfrac{\Delta}{40T}$ inches
= 7½" as previously assigned

### TABULAR FREEBOARD corrected for Flush Deck (if required)  76.95 + 6.26  83.21

Correction for coefficient. $\dfrac{.77 + .68}{1.36} = 1.45/1.36$  88.78

| | + | — |
|---|---|---|
| Depth Correction ... ... | 28.71 | |
| Deduction for superstructures ... | — | |
| Sheer correction ... ... | — | .45 |
| Round of Beam correction ... ... | — | .09 |
| Correction for Thickness of Deck amidships | | |
| Other corrections, scantlings, etc. to correspond | .55 | |
| to a old draught of 27.6 ft. Sum | 29.26 | .54 + 28.72 |
| Summer Freeboard = | 117.50 | |

## SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:— 9'9½"

| | | | | | |
|---|---|---|---|---|---|
| Tropical Fresh Water Line above Centre of Disc ... | 14½" | | Tropical Fresh Water Freeboard ... ... | 8'7" | |
| Fresh Water Line " " ... | 7¼" | | Fresh Water " | 9'2¼" | |
| Tropical Line " " ... | 7" | | Tropical " | 9'2½" | |
| Winter Line below " ... | 7" | | Winter " | |
| Winter North Atlantic Line " " ... | | | Winter North Atlantic " | | |

003503-003512-0069