

30 APR 1949

Index. No. (For London Office only).

OWNERS' 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 |
| "TYLÖN" | 9005 | Swedish Halmstad | 847 | 1914 6 | Uddevalla |
| Moulded Dimensions: Length 210'-3" 210'-20" Freeboard Length 210'-3" 210'-5" | | | | | Date of Survey March - April, 1949 |
| Moulded displacement at moulded draught = 85 per cent. of moulded depth tons | | | | | Surveyor's Signature <i>Hans Sney</i> |
| Coefficient of fineness for use with Tables 74 (Freeboard report 23769) 736 (Estimated) | | | | | Particulars of Classification +100A1 |

| | | |
|---|--|--|
| Depth for Freeboard (D). | Depth correction. | Round of Beam correction. |
| Moulded depth 15.58 | (a) Where D is greater than Table depth (D-Table depth) R = (15.61 - 14.01) 1.67 = +2.59 | Moulded Breadth (B) 31.50 |
| Stringer plate .36 .03 | (b) Where D is less than Table depth (if allowed) (Table depth-D) R = | Standard Round of Beam = $\frac{B \times 12}{50} = 7.56$ |
| Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ | If restricted by superstructures | Ship's Round of Beam = $\frac{713}{16} = 7.81$ |
| Depth for Freeboard (D) = 15.61 | | Difference .25 |
| | | Restricted to |
| | | Correction = $\frac{\text{Diff}^c}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.25}{4} \times .4828 = -.03$ |

DEDUCTION FOR SUPERSTRUCTURES.

| | Mean Covered Length (S) | Equivalent Enclosed Length (S ₁) | Height | Height Correction | Effective Length (E) |
|---------------------|-------------------------|--|--------|-------------------|----------------------|
| Poop enclosed | 28.70 | 28.70 | 7'-0" | | 28.70 |
| » overhang | | | | | |
| R.Q.D. enclosed | | | | | |
| » overhang | | | | | |
| Bridge enclosed | 60.00 | 54.00 | 7'-0" | | 54.00 |
| » overhang aft | 2.42 | 1.82 | | | 1.82 |
| » overhang forward | .54 | .27 | | | .27 |
| Fore enclosed | 23.60 | 23.60 | 7'-5" | | 23.60 |
| » overhang | .66 | .33 | | | .33 |
| Trunk aft | | | | | |
| » forward | | | | | |
| Tonnage opening aft | | | | | |
| » forward | | | | | |
| Total | 115.92 | 108.72 | | | 108.72 |

| | |
|---|-----------------------|
| Standard Height of Superstructure | 6.00 |
| » » R.Q.D. | |
| Deduction for complete superstructure | 27.02 |
| Percentage covered $\frac{S}{L} =$ | 55.15 |
| » $\frac{S_1}{L} =$ | |
| » $\frac{E}{L} =$ | 51.72 |
| Percentage from Table, Line A. (corrected for absence of forecastle [if required]) | |
| Percentage from Table, Line B. (corrected for absence of forecastle [if required]) | 37.72 |
| Interpolation for bridge less than 2L (if required) | |
| Deduction = | 27.02 x .3772 = 10.19 |

SHEER CORRECTION.

| Station | Standard Ordinate | S | M | Product | Actual Ordinate | Effective Ordinate | S | M | Product | Mean actual shear aft | Mean standard shear aft |
|-----------------|-------------------|---|---|---------|-----------------|--------------------|---|---|---------|-----------------------|-------------------------|
| A.P. | 31.02 | 1 | | 31.02 | 31 | 31.00 | 1 | | 31.00 | Deficient | |
| 1/6 L from A.P. | 13.80 | 4 | | 55.20 | 13.8 | 13.80 | 4 | | 55.20 | Deficient | |
| 2/6 L | 3.41 | 2 | | 6.82 | 3.4 | 3.40 | 2 | | 6.80 | | |
| Amidships | - | 4 | | - | 0 | - | 4 | | - | | |
| 2/6 L from F.P. | 6.825 | 2 | | 13.65 | 6.8 | 6.80 | 2 | | 13.60 | | |
| 1/6 L | 27.61 | 4 | | 110.44 | 27.5 | 27.50 | 4 | | 110.00 | | |
| F.P. | 62.04 | 1 | | 62.04 | 62 | 62.00 | 1 | | 62.00 | | |
| Total | | | | 279.17 | | | | | 278.60 | | |

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75}{2L} \right) = \frac{.57}{18} \left(\frac{.75}{278.6} \right) = +.02$

If limited on account of midship superstructure. limited to maximum allowance of 1 1/2 ins. per 100 ft.

| | | |
|---|--|--|
| Deduction for Tropical Freeboard. | Deduction for Fresh Water. | TABULAR FREEBOARD corrected for Flush Deck (if required) |
| Addition for Winter and Winter North Atlantic Freeboard. | Displacement in salt water at summer load water line | Correction for coefficient |
| Depth to Freeboard Deck = 15.61 | Δ = | |
| Summer freeboard = 1.52 | Tons per inch immersion at summer load water line | |
| Moulded draught (d) = 14.09 | T = | |
| Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 3.52 = 89 m/ins | Deduction = $\frac{\Delta}{40 T}$ inches = 89 m/ins | |
| Addition for Winter North Atlantic Freeboard (if required) = 89 + 51 = 140 m/ins. | | |

| | |
|--|------------------------------|
| Depth Correction | 2.59 |
| Deduction for superstructures | 10.19 |
| Sheer correction | .02 |
| Round of Beam correction | .03 |
| Correction for Thickness of Deck amidships | - |
| Other corrections, scantlings, etc. | - |
| Summer Freeboard = | 24.84 + 25.86 - 7.61 = 43.09 |

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

| | |
|--|-----|
| Tropical Fresh Water Line above Centre of Disc | 178 |
| Fresh Water Line | 89 |
| Tropical Line | 89 |
| Winter Line below | 51 |
| Winter North Atlantic Line | 102 |

| | |
|--------------------------------|-----|
| Tropical Fresh Water Freeboard | 285 |
| Fresh Water | 374 |
| Tropical | 374 |
| Winter | 514 |
| Winter North Atlantic | 565 |

Tylon.

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.

Forecastle :-

Length enclosed — 21.88'✓

Sideways $\frac{5.58' \times 4.0' \times 2}{26.00'} = \frac{1.72'}{23.60'}$ ✓ ✓
= equivl. enclosed length.

Change = 2.38' - 1.72'
= 0.66'✓

Trade of ship..... General.....

Names of sister ships ---

Builder's name and yard number Antwerp Engineering Co. LD., Hoboken. Yard No. 70.

Owners..... Rederi A/B. Hallandskust (C.O. Johansson, Mgr.) Halmstad

Fee Kr.



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