

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

Ship's Name: 5/5 OSWIN Official Number: 5402 Nationality and Port of Registry: Swedish Helsingborg Gross Tonnage: 1913-2. Rebuilt 1942-4. Date of Build: 1913-2. Port of Survey: Gathenbury Date of Survey: 24/3 - 8/4 1942. Surveyor's Signature: G. Gyring. Particulars of Classification: 100 A.1. With freeboard.

Depth for Freeboard (D): Moulded depth 18.58 Stringer plate 0.4 Sheathing on exposed deck T((L-S)/L) = Depth for Freeboard (D) = 18.62 Depth correction: (a) Where D is greater than Table depth (D-Table depth) R = (18.62-18.58) x 1.807 = +0.09 (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) 37.5 Standard Round of Beam = B x 12 / 50 = 9.0 Ship's Round of Beam = 9.5 Difference 0.5 Restricted to Correction = Diff / 4 x (1 - S1/L) = 0.5 / 4 x (1 - 37.5/37.5) = 0

DEDUCTION FOR SUPERSTRUCTURES. Standard Height of Superstructure 6'-0" R.Q.D. Deduction for complete superstructure 29'-5" Percentage covered S/L = 100% S1/L = 99.12% E/L = 99.12% Percentage from Table, Line A. (corrected for absence of forecastle (if required)) 98.91% Percentage from Table, Line B. (corrected for absence of forecastle (if required)) Interpolation for bridge less than 2L (if required) Deduction = 29.5 x .9891 = -29.18"

SHEER CORRECTION. Station Standard Ordinate S M Product Actual Ordinate Effective Ordinate S M Product A.P. 33.50 1 33.50 38.0 50.5 1 50.5 1/6L from A.P. 14.91 4 59.64 15.5 22.47 4 89.88 2/6L 3.68 2 7.36 3.5 5.56 2 11.12 Amidships 0.0 4 0.0 0.0 2/6L from F.P. 7.36 2 14.72 7.0 9.30 2 18.60 1/6L 29.82 4 119.28 29.0 37.60 4 150.40 F.P. 67.00 1 67.00 72.0 84.50 1 84.50 Total 301.50 412.5 405.00 Correction = Difference between sums of products / 18 = (103.50 - 412.5) / 18 = -1.44" If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 18.62 Summer freeboard = 0.52 Moulded draught (d) = 18.10 Deduction for Tropical freeboard and addition for Winter freeboard = d/4 inches = 4.52 = 115% Addition for Winter North Atlantic Freeboard (if required) = 51 + 115% = 166% Deduction for Fresh Water. Displacement in salt water at summer load water line Delta = 3596 Tons per inch immersion at summer load water line T = 17.79 Deduction = Delta / 40 T inches = 5.05 = 128% TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient 777 + 68 / 1.36 = 1.457 / 1.36 Depth Correction 5.33 Deduction for superstructures 29.18 Sheer correction 1.44 Round of Beam correction 0 Correction for Thickness of Deck amidships 0 Other corrections, scantlings, etc. 0 Summer Freeboard = 6.21

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Steel, Deck: Tropical Fresh Water Line above Centre of Disc 236 Fresh Water Line 128 Tropical Line Limited 108 Winter Line below 115 Winter North Atlantic Line 166 Tropical Fresh Water Freeboard MINUS 78 Fresh Water 30 Tropical 50 (LIMITED) Winter 273 Winter North Atlantic 324

Geurin.

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.

Displacement in salt water and tons per inch immersion.

| <u>Shoulded draught</u> | <u>Displacement</u> | <u>Tons/inch</u> |
|-------------------------|---------------------|------------------|
| 90% = 16.72' | 3305 tons | 17.65 |
| 95% = 17.65' | 3500 " | 17.75 |
| 100% = 18.58' | 3695 " | 17.85. |

Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £



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Foundation