

AMENDED COMPUTATION.

Rpt. C.11 (Comp.).

Index No. _____
(For London Office only.)

LLOYD'S REGISTER OF SHIPPING
UNITED WITH THE BRITISH CORPORATION REGISTER
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

| | | | | | |
|--|-----------------|--|-----------------------------|------------------------------|---|
| Ship's Name OKWA | Official Number | Nationality and Port of Registry BRITISH | Gross Tonnage 460 | Date of Build 1941 | Port of Survey |
| Moulded Dimensions: Length 152.00' Breadth 27'-6" Depth 15'-0" <small>26 x LENGTH ON SWL</small> | | | | | Date of Survey 17/4/53. |
| Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) 935 tons | | | | | Surveyor's Signature |
| Coefficient of fineness for use with Tables .63 (.616 ACTUAL) | | | | | Particulars of Classification * 100 A.I. |

| DEPTH FOR FREEBOARD (D). | DEPTH CORRECTION. | ROUND OF BEAM CORRECTION. |
|---|---|--|
| Moulded depth 15.00 | (a) Where D is greater than Table depth (D-Table depth) R = (15.20 - 10.13) 1.169 = + 5.93 | Moulded Breadth (B) 27.50 |
| Stringer plate026 | (b) Where D is less than Table depth (if allowed) (Table depth-D) R = 5.04 | Standard Round of Beam = $\frac{B \times 12}{50} = \frac{6.60}{50} = 7.00$ |
| Sheathing on exposed deck | If restricted by superstructures <input checked="" type="checkbox"/> | Ship's Round of Beam = 7.00 |
| $T \left(\frac{L-S}{L} \right) = \frac{2.5 \times 126.75}{12 \times 152} = .174$ | | Difference = 1.40 |
| Depth for Freeboard (D) 15.20 | | Restricted to |
| | | Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.40}{4} \times .8339 = -.08$ |

DEDUCTION FOR SUPERSTRUCTURES.

| | Mean Covered Length (S) | Equivalent Enclosed Length (S ₁) | Height | Height Correction | Effective Length (E) | |
|----------------------------|-------------------------|--|--------------|-------------------------------------|----------------------|---|
| Poop enclosed | | | | | | Standard Height of Superstructure 6.00 |
| " overhang | | | | | | " " R.Q.D. - |
| R.Q.D. enclosed | | | | | | Deduction for complete superstructure 21.2 |
| " overhang | | | | | | Percentage covered $\frac{S}{L} =$ |
| Bridge enclosed | | | | | | " " $\frac{S_1}{L} =$ 6.61 |
| " overhang aft | | | | | | " " $\frac{E}{L} =$ |
| " overhang forward | | | | | | Percentage from Table, Line A. .8305 |
| F'cle enclosed | 25.25 | 25.25 | 6'-6" | <input checked="" type="checkbox"/> | 25.25 | (corrected for absence of forecastle (if required)) |
| " overhang | | | | | | Percentage from Table, Line B. <input checked="" type="checkbox"/> |
| Trunk aft | | | | | | (corrected for absence of forecastle (if required)) <input checked="" type="checkbox"/> |
| " forward | | | | | | Interpolation for bridge less than .2L (if required) |
| Tonnage opening aft | | | | | | Deduction = 21.2 x .8305 = -1.74" |
| " " forward | | | | | | |
| Total | 25.25 | 25.25 | | | 25.25 | |

SHEER CORRECTION.

VESSEL OF NORMAL DESIGN MAIN DRAFT LOADED 11'-2 3/4" TRIM BY STERN 3'-11 1/2"

| Station | Standard Ordinate | S | M | Product | Actual Ordinate | Effective Ordinate | S | M | Product |
|------------------------|-------------------|----------|---------------|-----------|-----------------|--------------------|----------|---------------|--------------|
| A.P. | 25.20 | 1 | 25.20 | 67 | 43.25 | 25.20 | 1 | 25.20 | 25.20 |
| 1/8 L from A.P. | 11.215 | 4 | 44.86 | 39 | 23.17 | 11.215 | 4 | 44.86 | 44.86 |
| 2/8 L " | 2.77 | 2 | 5.54 | 15 | 7.08 | 2.77 | 2 | 5.54 | 5.54 |
| Amidships | - | 4 | - | 0 | 0 | 0 | 4 | 0 | 0 |
| 3/8 L from F.P. | 5.54 | 2 | 11.08 | -6 | 1.92 | 1.92 | 2 | 3.84 | 3.84 |
| 1/8 L " | 22.43 | 4 | 89.72 | 0 | 15.83 | 15.83 | 4 | 63.32 | 63.32 |
| F.P. | 50.40 | 1 | 50.40 | 17 | 40.75 | 40.75 | 1 | 40.75 | 40.75 |
| Total | | | 226.80 | | | | | 183.51 | |

Mean actual sheer aft = **EXCESS**
Mean standard sheer aft

Mean actual sheer forward = **DEFICIENT**
Mean standard sheer forward

Length of enclosed superstructure forward of amidships = **DEFICIENT**
" " aft of " = **SHEERS.**

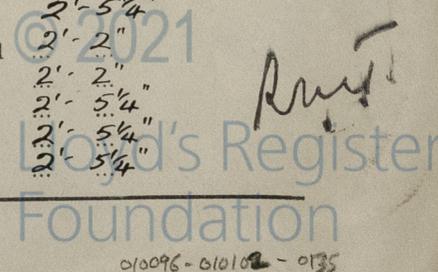
Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{43.29}{18} \left(\frac{.75 - .08305}{2} \right) = +1.60"$
If limited on account of midship superstructure. **.6695** If limited to maximum allowance of 1 1/2 ins. per 100 ft.

| <p>Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard.</p> <p>Depth to Freeboard Deck = 15.23 Ft. Summer freeboard = 2.43 Moulded draught (d) = 12.80 Keel allowance = - Extreme draught = - Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 3.20 = 3 1/4" Addition for Winter North Atlantic Freeboard (if required) = 5 1/4"</p> | <p>Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta = 774$ T. Tons per inch immersion at summer load water line $T = 8.27$ Deduction = $\frac{\Delta}{40 T}$ inches = 3 1/4"</p> | <p>TABULAR FREEBOARD corrected for Flush Deck (if required) 15.78 Correction for coefficient NIL 15.78</p> <table border="1"> <tr> <th></th> <th>+</th> <th>-</th> </tr> <tr> <td>Depth Correction</td> <td>5.93</td> <td>-</td> </tr> <tr> <td>Deduction for superstructures</td> <td>-</td> <td>1.74</td> </tr> <tr> <td>Sheer correction</td> <td>1.60</td> <td>-</td> </tr> <tr> <td>Round of Beam correction</td> <td>-</td> <td>.08</td> </tr> <tr> <td>Correction for Thickness of Deck amidships</td> <td>.41</td> <td>4.7</td> </tr> <tr> <td>Other corrections, scantlings, etc. 6" below sill of lowest side-scuttle</td> <td>3.47</td> <td>1.82</td> </tr> <tr> <td></td> <td>7.35</td> <td>2.28</td> </tr> <tr> <td></td> <td>15.29</td> <td>18.453</td> </tr> <tr> <td>Summer Freeboard =</td> <td>29.25</td> <td></td> </tr> </table> | | + | - | Depth Correction | 5.93 | - | Deduction for superstructures | - | 1.74 | Sheer correction | 1.60 | - | Round of Beam correction | - | .08 | Correction for Thickness of Deck amidships | .41 | 4.7 | Other corrections, scantlings, etc. 6" below sill of lowest side-scuttle | 3.47 | 1.82 | | 7.35 | 2.28 | | 15.29 | 18.453 | Summer Freeboard = | 29.25 | |
|--|--|---|--|---|---|------------------|-------------|----------|-------------------------------|----------|-------------|------------------|-------------|----------|--------------------------|----------|------------|--|------------|------------|--|-------------|-------------|--|-------------|-------------|--|--------------|---------------|--------------------|--------------|--|
| | + | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Depth Correction | 5.93 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deduction for superstructures | - | 1.74 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sheer correction | 1.60 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Round of Beam correction | - | .08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Correction for Thickness of Deck amidships | .41 | 4.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other corrections, scantlings, etc. 6" below sill of lowest side-scuttle | 3.47 | 1.82 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7.35 | 2.28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15.29 | 18.453 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Summer Freeboard = | 29.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

| | | | |
|--|---------------|--------------------------------|------------------|
| Tropical Fresh Water Line above Centre of Disc | 3 1/4" | Tropical Fresh Water Freeboard | 2'-5 1/4" |
| Fresh Water Line | 3 1/4" | Fresh Water | 2'-2" |
| Tropical Line | NIL | Tropical | 2'-2" |
| Winter Line below | NIL | Winter | 2'-5 1/4" |
| Winter North Atlantic Line | NIL | Winter North Atlantic | 2'-5 1/4" |

21.4.1953.



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.

For height of hull see other C11 comp.

Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £



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