

FORT MACHAULT.  
37478-

10 OCT 1944

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(For London Office only).

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, ~~SAILING-SHIP~~, ~~PATRIOT~~)

|   |                                  |   |                                 |                              |  |
|---|----------------------------------|---|---------------------------------|------------------------------|--|
| Ship's Name<br><b>S. S. "YOHIO PARK"</b><br><b>LAKE WINNIPEG</b>  | Official Number<br><b>175575</b> | Nationality and Port of Registry<br><b>British Montreal, P.Q.</b> | Gross Tonnage<br><b>7163.61</b> | Date of Build<br><b>1944</b> | Port of Survey<br><b>North Vancouver, B.C.</b>   |
| Moulded Dimensions: Length <b>417.35'</b> Breadth <b>56.90'</b> Depth <b>(37.33' to Upper Deck)</b><br><i>To centre of molder block</i> <b>(28.58' to 2nd Deck)</b> |                                  |   |                                 |                              | Date of Survey<br><b>July, 1944</b>  |
| Moulded displacement at moulded draught = 85 per cent. of moulded depth <b>16,600</b> tons  |                                  |   |                                 |                              | Surveyor's Signature<br><b>J. Caldwell</b>   |
| Coefficient of fineness for use with Tables <b>.771.</b>  |                                  |   |                                 |                              | Particulars of Classification <b>(Contemplated)</b><br><b>*100 A1 with freeboard corresponding to a Summer Moulded draught of 26'-10".</b> |

|  |   |  |
|--|---|--|
| Depth for Freeboard (D).   | Depth correction.   | Round of Beam correction.  |
| Moulded depth ... <b>37.33'</b>  | (a) Where D is greater than Table depth<br>(D - Table depth) R = <b>(37.39 - 27.82) 3 = +28.71.</b> | Moulded Breadth (B) <b>56.9'</b>   |
| Stringer plate ... <b>.06'</b>   | (b) Where D is less than Table depth (if allowed)<br>(Table depth - D) R = <b>9.57</b>              | Standard Round of Beam = $\frac{B \times 12}{50} = \frac{13.66}{50}$                                 |
| Sheathing on exposed deck<br>$T \left( \frac{L-S}{L} \right) =$ <b>✓</b> | If restricted by superstructures  | Ship's Round of Beam = <b>14.00"</b>   |
| Depth for Freeboard (D) = <b>37.39.</b>                                  |   | Difference = <b>.34</b>  |
|  |   | Restricted to <b>✓</b>   |
|  |   | Correction = $\frac{\text{Diff}}{4} \times \left( 1 - \frac{S_1}{L} \right) = \frac{.34}{4} = -.09.$ |

### DEDUCTION FOR SUPERSTRUCTURES.

|                         | Mean Covered Length (S) | Equivalent Enclosed Length (S <sub>1</sub> ) | 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 ...               |                         |  |        |                   |                      |

Standard Height of Superstructure ...

" " R.Q.D. ...

Deduction for complete superstructure ...

Percentage covered  $\frac{S}{L} =$  ...

" "  $\frac{S_1}{L} =$  ... } **Flush deck.**

" "  $\frac{E}{L} =$  ...

Percentage from 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<br><b>Ins.</b> | Effective Ordinate | S M | Product       |
|--------------------|-------------------|-----|---------------|--------------------------------|--------------------|-----|---------------|
| A.P. ...           | <b>51.73</b>      | 1   | <b>51.73</b>  | <b>55.00</b>                   | <b>55.00</b>       | 1   | <b>55.00</b>  |
| 1/4L from A.P. ... | <b>23.02</b>      | 4   | <b>92.08</b>  | <b>23.25</b>                   | <b>23.25</b>       | 4   | <b>93.00</b>  |
| 1/4L " ...         | <b>5.69</b>       | 2   | <b>11.38</b>  | <b>6.50</b>                    | <b>6.50</b>        | 2   | <b>13.00</b>  |
| Amidships ...      | -                 | 4   | -             | -                              | -                  | 4   | -             |
| 1/4L from F.P. ... | <b>11.38</b>      | 2   | <b>22.76</b>  | <b>11.63</b>                   | <b>11.63</b>       | 2   | <b>23.26</b>  |
| 1/4L " ...         | <b>46.04</b>      | 4   | <b>184.16</b> | <b>46.75</b>                   | <b>46.75</b>       | 4   | <b>187.00</b> |
| F.P. ...           | <b>103.47</b>     | 1   | <b>103.47</b> | <b>105.00</b>                  | <b>105.00</b>      | 1   | <b>105.00</b> |
| Total ...          |                   |     | <b>465.58</b> |                                |                    |     | <b>476.26</b> |

Mean actual sheer aft = ...

Mean standard sheer aft = ... } **Excess.**

Mean actual sheer forward = ...

Mean standard sheer forward = ...

Length of enclosed superstructure forward of amidships = ...

" " aft of " = ... } **Flush deck.**

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

If limited on account of midship superstructure. **No. Flush deck.**

If 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. $\frac{771 + .68}{1.36} = \frac{1.451}{1.36}$                             |
| Depth to Freeboard Deck = <b>37.39</b>  | $\Delta = 13.760$                                      | Depth Correction ... <b>28.71</b>   |
| Summer freeboard = <b>10.56</b>   | Tons per inch immersion at summer load water line      | Deduction for superstructures ...   |
| Moulded draught (d) = <b>26.83.</b>   | $T = 48.20.$   | Sheer correction ... <b>.45</b>   |
| Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <b>6.71 = 6 3/4</b> | Deduction = $\frac{\Delta}{40T}$ inches = <b>7 1/4</b> | Round of Beam correction ... <b>.09</b>   |
| Addition for Winter North Atlantic Freeboard (if required) = <b>✓</b>   |  | Correction for Thickness of Deck amidships ...  |
|   |  | Other corrections, scantlings, etc. <b>15.5. Corresponding to a summer moulded draught of 26'-10"</b> |
|   |  | Summer Freeboard = <b>126.75.</b>   |

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

|   |  |
|---|--|
| Tropical Fresh Water Line above Centre of Disc ... <b>14"</b> | Tropical Fresh Water Freeboard ... <b>10'-6 3/4"</b> |
| Fresh Water Line " " ... <b>7 1/4"</b>                        | Fresh Water " " ... <b>9'-4 3/4"</b>                 |
| Tropical Line " " ... <b>6 3/4"</b>                           | Tropical " " ... <b>9'-11 1/2"</b>                   |
| Winter Line below " " ... <b>6 3/4"</b>                       | Winter " " ... <b>10'-0"</b>                         |
| Winter North Atlantic Line " " ... <b>✓</b>                   | Winter North Atlantic " " ... <b>11'-1 1/2"</b>      |

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.

North Vancouver, B.C.  
July, 1944  
British Columbia  
Montreal, P.Q.  
175275  
416.501  
56.901  
10,600  
(37.331 to Upper Deck  
(23.281 to Lower Deck  
(Concave)  
#100 All with  
to 100 ft. Summer Months  
draught of 28'-10"

Trade of ship.....

Names of sister ships North Van Ship Repairs Ltd., North Vancouver, B. C. (Yard No.127) S.S. "FORT HALL"

Builder's name and yard number North Van Ship Repairs Ltd., North Vancouver, B. C. (Yard No. 143)

Owners Minister of Munitions & Supply of Canada. (Mgrs. Park Steamship Co.Ltd., Montreal)

Fee £ \$100.00



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