

Lloyd's Register of Shipping.  
SURVEYS FOR FREEBOARD.

|  |   |                                  |  |                              |  |  |
|--|---|----------------------------------|--|------------------------------|--|--|
| Computation of Freeboard for Steamer, Sailing Ship, Tanker                               |   |                                  |  |                              | Port of Survey <u>Detroit, Mich.</u>   |  |
| having <u>Long Poop and Forecastle</u>   |   |                                  |  |                              | Date of Survey <u>3rd-15th Nov. 1937.</u>  |  |
| (Type of Superstructures.)   |   |                                  |  |                              | Name of Surveyor <u>G. Drummond and J. G. Buchanan</u>                           |  |
| Ship's Name<br><u>"WIN ON"</u><br><u>ex "Lake George"</u>                                | Nationality and Port of Registry<br><u>Chinese</u><br><u>Shanghai</u> | Official Number<br><u>215765</u> | Gross Tonnage<br><u>2486</u>   | Date of Build<br><u>1917</u> | Particulars of Classification<br><u>Reinstatement of class contemplated.</u>     |  |
| Moulded Dimensions: Length <u>253.5</u> Breadth <u>43.5</u> Depth <u>27.5</u>            |   |                                  |  |                              |  |  |
| Moulded displacement at moulded draught = 85 per cent. of moulded depth <u>5740</u> tons |   |                                  |  |                              |  |  |
| Coefficient of fineness for use with Tables <u>.78</u>                                   |   |                                  |  |                              |  |  |
| Depth for Freeboard (D)  |   |                                  | Depth correction   |                              | Round of Beam correction   |  |
| Moulded depth ... .. <u>27.5</u>   |   |                                  | (a) Where D is greater than Table depth<br>(D—Table depth) R =           |                              | Moulded Breadth (B) <u>43.5</u>  |  |
| Stringer plate ... .. <u>.04</u>   |   |                                  | (b) Where D is less than Table depth (if allowed)<br>(Table depth—D) R = |                              | Standard Round of Beam = $\frac{B \times 12}{50}$ = <u>10.5</u>                  |  |
| Sheathing on exposed deck<br>$T \left( \frac{L-S}{L} \right) =$                          |   |                                  | If restricted by superstructures   |                              | Ship's Round of Beam = <u>13.0</u>   |  |
| Depth for Freeboard (D) = <u>27.54</u>   |   |                                  |  |                              | Difference <u>2.5</u>  |  |
|  |   |                                  |  |                              | Restricted to  |  |
|  |   |                                  |  |                              | Correction = $\frac{\text{Diff}^e}{4} \times \left( 1 - \frac{S_1}{L} \right) =$ |  |

## DEDUCTION FOR SUPERSTRUCTURES.

|                            | Mean Covered Length (S) | Equivalent Enclosed Length (S <sub>1</sub> ) | Height | Height Correction | Effective Length (E) |   |
|----------------------------|-------------------------|--|--------|-------------------|----------------------|---|
| Poop enclosed ... ..       | 116                     | 116  | 7.5    | -                 | 116                  | Standard Height of Superstructure .....   |
| „ overhang ... ..          |                         |  |        |                   |                      | „ „ R.Q.D. ....   |
| R.Q.D. enclosed ... ..     | ✓                       |  |        |                   |                      | Deduction for complete superstructure .....   |
| „ overhang ... ..          |                         |  |        |                   |                      | Percentage covered $\frac{S}{L} =$  |
| Bridge enclosed ... ..     | ✓                       |  |        |                   |                      | „ „ $\frac{S_1}{L} =$   |
| „ overhang aft ... ..      |                         |  |        |                   |                      | „ „ $\frac{E}{L} =$   |
| „ overhang forward ... ..  |                         |  |        |                   |                      | Percentage from Table, Line A.<br>(corrected for absence of forecastle (if required)) |
| F'cle enclosed ... ..      | 26.25                   | 26.25  | 7.5    | -                 | 26.25                | Percentage from Table, Line B.<br>(corrected for absence of forecastle (if required)) |
| „ overhang ... ..          |                         |  |        |                   |                      | Interpolation for bridge less than .2L (if required)                                  |
| Trunk aft ... ..           |                         |  |        |                   |                      | Deduction =   |
| „ forward ... ..           |                         |  |        |                   |                      |   |
| Tonnage opening aft ... .. |                         |  |        |                   |                      |   |
| „ „ forward ... ..         |                         |  |        |                   |                      |   |
| Total ... ..               |                         |  |        |                   |                      |   |

## SHEER CORRECTION.

| Station                          | Standard Ordinate | S<br>M | Product | Actual Ordinate | Effective Ordinate | S<br>M | Product |  |
|----------------------------------|-------------------|--------|---------|-----------------|--------------------|--------|---------|--|
| A.P. ... ..                      |                   | 1      |         | 17              |                    | 1      |         | Mean actual sheer aft =                                  |
| $\frac{1}{8}$ L from A.P. ... .. |                   | 4      |         | 1               |                    | 4      |         | Mean standard sheer aft =                                |
| $\frac{2}{8}$ L „ ... ..         |                   | 2      |         | -1              |                    | 2      |         | Mean actual sheer forward =                              |
| Amidships ... ..                 |                   | 4      |         | -               |                    | 4      |         | Mean standard sheer forward =                            |
| $\frac{3}{8}$ L from F.P. ... .. |                   | 2      |         | 4.5             |                    | 2      |         | Length of enclosed superstructure forward of amidships = |
| $\frac{1}{8}$ L „ ... ..         |                   | 4      |         | 16.6            |                    | 4      |         | „ „ aft of „ =   |
| F.P. ... ..                      |                   | 1      |         | 55              |                    | 1      |         |  |
| Total ... ..                     |                   |        |         |                 |                    |        |         |  |

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

If limited on account of midship superstructure.

If limited to maximum allowance of  $1\frac{1}{2}$  ins. per 100 ft.

## Deduction for Tropical Freeboard.

## Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck =          Ft.

Summer freeboard =         

Moulded draught (d) =         

Deduction for Tropical freeboard and addition for Winter freeboard =  $\frac{d}{4}$  inches =         

Addition for Winter North Atlantic Freeboard (if required) =         

## 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 =  $\frac{\Delta}{40T}$  inches =         

## TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction ... ..

Deduction for superstructures ... ..

Sheer correction ... ..

Round of Beam correction ... ..

Correction for Thickness of Deck amidships ... ..

Other corrections, scantlings, etc. ... ..

Summer Freeboard =         

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

|   |                                       |
|---|---------------------------------------|
| Tropical Fresh Water Line above Centre of Disc ... .. | Tropical Fresh Water Freeboard ... .. |
| Fresh Water Line „ „ ... ..                           | Fresh Water „ „ ... ..                |
| Tropical Line „ „ ... ..                              | Tropical „ „ ... ..                   |
| Winter Line below „ „ ... ..                          | Winter „ „ ... ..                     |
| Winter North Atlantic Line „ „ ... ..                 | Winter North Atlantic „ „ ... ..      |



# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

| Description of Hatchway  |                      | HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS |                      |              |              | Access To Holds |                         |
|--|----------------------|---|----------------------|--------------|--------------|-----------------|-------------------------|
|  |                      | ON UPPER DECK                                   | ON POOP DECK         | ON TRUNK TOP | ON TRUNK TOP |                 |                         |
| Dimensions of Hatchway   |                      | No.1  | No.2                 | No.3         | No.4         | To Bunker       | To Steering Gear Compt. |
|  |                      | 29.25'x24'                                      | 29.25'x24'           | 29.25'x24'   | 29.25'x24'   | 21"x21"         | 21"x21"                 |
| COAMINGS   | Height above Deck    | 28"   | 28"                  | 28"          | 24"          | 3 1/2"          | 3 1/2"                  |
|  | Thickness            | .42   | .42                  | .42          | .42          |                 |                         |
|  | Sides                | .38   | .38                  | .38          | .42          |                 |                         |
|  | Stiffeners           | 4--   | 10' x 3 1/2" x 21.9# | 21.9#        | 21.9#        |                 |                         |
|  |                      |   | None                 |              |              |                 |                         |
| HATCH BEAMS  | Number               | 5   | 5                    | 5            | 5            |                 |                         |
|  | Spacing              | 4'-10 1/2"                                      | 4'-10 1/2"           | 4'-10 1/2"   | 4'-10 1/2"   |                 |                         |
|  | Scantling and Sketch | 5x3x.44   | 5x3x.44              | 5x3x.44      | 5x3x.44      |                 |                         |
|  | Bearing Surface      | 3 1/2"  | 3 1/2"               | 3 1/2"       | 3 1/2"       |                 |                         |
| FORE AND AFTERS  | Number               |   |                      |              |              |                 |                         |
|  | Spacing              |   |                      |              |              |                 |                         |
|  | Unsupported Lengths  |   |                      |              |              |                 |                         |
|  | Scantling and Sketch |   |                      |              |              |                 |                         |
|  |                      | NONE  |                      |              |              |                 |                         |
| HATCH COVERS   | Material             | Wood  |                      |              |              | Hinged Steel    | Hinged Steel            |
|  | Thickness            | 2-3/4"  |                      |              |              | W.T.            | W.T.                    |
|  | How fitted           | F&A   |                      |              |              | Covers          | Cover                   |
|  | Bearing Surface      | 3   |                      |              |              |                 |                         |
| Spacing of Cleats  |                      | 24"   |                      |              |              |                 |                         |
| Number of Tarpaulins   |                      | 2   |                      |              |              |                 |                         |
| *Are wood fore and afters steel shod at all bearing surfaces?              |                      | -   |                      |              |              |                 |                         |
| Are battens and wedges efficient and in good condition?                    |                      | Yes   |                      |              |              |                 |                         |
| Are tarpaulins in good condition and in accordance with rule requirements? |                      | Yes   |                      |              |              |                 |                         |
| Are lashings provided in accordance with rule requirements?                |                      | Locking Bars provided                           |                      |              |              |                 |                         |

Particulars of fiddle, funnel and ventilator coamings:—

Fiddle openings closed by strong steel hinged covers and bolt fastenings.  
Engine skylight of steel strongly constructed with bolt fastenings and coal chute closed with hinged steel cover and bolt fastenings.  
Stokehold and engine room ventilators and funnel are in good condition.

Particulars of Flush Bunker Scuttles:—

NONE

Particulars of Companionways:—

On poop deck fore end of deck house, steel companionway efficiently constructed leading to stokehold. Hinged steel W.T. doors capable of being opened from both sides.

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:—

4 Hold vents on trunk top - coamings 12" to 24" x 18" x 3/8"

2 vents in Poop Deck - 22" x 18" x 3/8"

Wood plugs and canvas covers provided.

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:—

On trunk top from double bottom tanks - 3" dia. openings 4" above trunk top.

On well deck from side tanks - 3" dia. openings 4" above deck.

Wood plugs and canvas covers provided.

Particulars of Gangway Cargo and Coaling Ports:—

NONE

Particulars of Scuppers and Sanitary Discharge Pipes:—

One sanitary discharge from enclosed forecandle flap valve on ship side.

Four sanitary discharges from enclosed poop flap valves on ships side.

Particulars of Side Scuttles:—

Side scuttles in good condition and fitted with dead lights.

Particulars of Guard Rails:—

On forecandle 3' 9" high - 3 bar rails - stanchions 4' apart

On poop deck 3' 9" high - 3 bar rails - stanchions 5' apart.

Particulars of Gangways, Lifelines, etc.:—

Life line provided across top of trunk.

| Particulars of Freeing Arrangements.   |                   |                   |                       |                  |                |                     |
|--|-------------------|-------------------|-----------------------|------------------|----------------|---------------------|
|  | Length of Bulwark | Height of Bulwark | Size of Freeing Ports | Number each side | Area each side | Rule area each side |
| After Well ...   | 111' 0"           | 3' 0"             | 40" x 17" oval        | 4                | 17.4 sq.ft.    | 22 sq.ft.           |
| Forward Well ...   |                   |                   |                       |                  |                |                     |
| State position of each freeing port ... After Well:— Lower edge 10" above deck<br>(F. and A. position and height above deck edge) } Forward Well:—<br>State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— 4 vertical round bars on each |                   |                   |                       |                  |                |                     |
| Additional area where sheer is less than standard.   |                   |                   |                       |                  |                |                     |

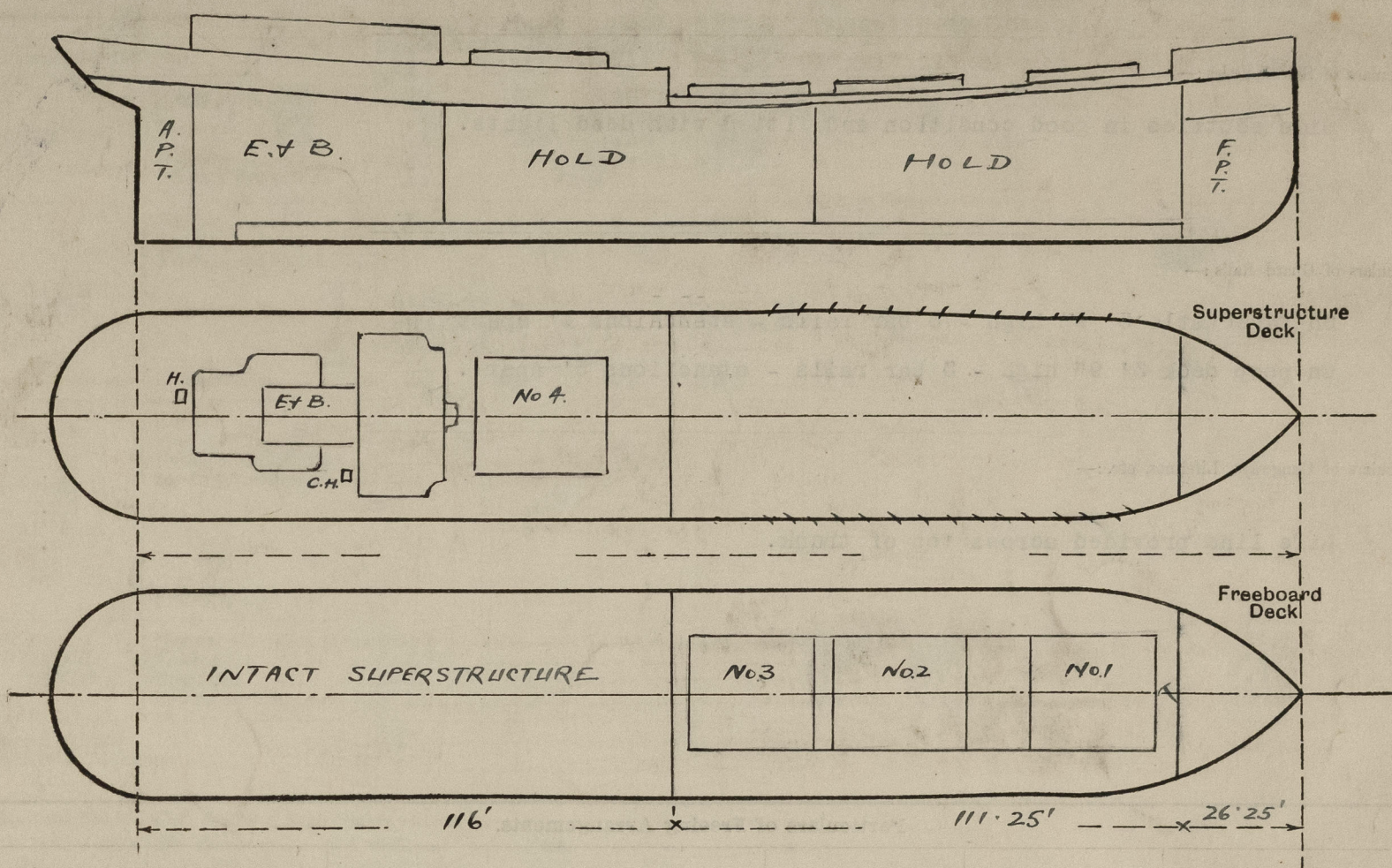
| Particulars of Superstructures, Trunks, Casings, Deckhouses.                            |         |         |               |         |                               |                  |                    |                   |
|---|---------|---------|---------------|---------|-------------------------------|------------------|--------------------|-------------------|
|   | Coaming | Plating | Stiffeners    | Spacing | End Attachments of Stiffeners | Size of Openings | Height of Sills    | Height of Casings |
| Poop Bulkhead ...   | .40     | .36     | 8x3 1/2x21.5# | 27"-29" | Bkts. top & bottom            | None             | -                  | 7.5               |
| Raised Quarter Deck Bulkhead ...  |         |         |               |         |                               |                  |                    |                   |
| Bridge, After Bulkhead ...  |         |         |               |         |                               |                  |                    |                   |
| Bridge, Forward Bulkhead ...  |         |         |               |         |                               |                  |                    |                   |
| Forecandle Bulkhead ...   | .32     | .28     | 4x3x3/8 L     | 24"-26" | None                          | 4'6"x2'3"        | 8" above trunk top | 7.5               |
| Trunk, Aft ...  |         |         |               |         |                               |                  |                    |                   |
| Trunk, Forward ...  |         |         |               |         |                               |                  |                    |                   |
| Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...                      |         |         |               |         |                               |                  |                    |                   |
| Exposed Machinery Casings on Superstructure Decks ...                                   | .30     | .30     | 3x3x3/8 L     | 27"     | Bkts. at top extending below  | None             | -                  | 7.5               |
| Machinery Casings within Superstructures not fitted with Class I Closing Appliances ... |         |         |               |         |                               |                  |                    |                   |
| Deckhouses on Flush Deck Ships ...  |         |         |               |         |                               |                  |                    |                   |

Particulars of Closing Appliances (state if capable of being manipulated from both sides).

|   |  |
|---|--|
| Poop Bulkhead ...   | None   |
| Raised Quarter Deck Bulkhead ...  | -  |
| Bridge, After Bulkhead ...  | -  |
| Bridge, Forward Bulkhead ...  | -  |
| Forecandle Bulkhead ...   | Hinged steel W.T. door. Can be opened from both sides. |
| Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...                      | -  |
| Exposed Machinery Casings on Superstructure Decks ...                                   | -  |
| Machinery Casings within Superstructures not fitted with Class I Closing Appliances ... | -  |
| Deckhouses on Flush Deck Ships ...  | -  |



Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shewn on the following sketches :—



State any special features in the construction of the ship :—

Builder's name and yard number..... **Great Lakes Engineering Works**      **No. 173**

Names of sister ships.....

Owners..... **Win On Steam Ship Co., Shanghai, China**

Fee **x**      **\$60.00**

Received by me.....



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