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COPY FOR  
London OFFICE  
(LLOYD'S R)

No. 501 SHIP, "OREGON MARU."

LIGHT DISPLACEMENT

AND

DEADWEIGHT CARRYING CAPACITY.

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KAWASAKI DOCKYARD CO., LTD.,  
KOB E, JAPAN.



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Foundation  
066889-006902-019014

No. 501 Ship, "Oregon Maru."

LIGHT DISPLACEMENT

AND

DEADWEIGHT CARRYING CAPACITY.

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1. - Draught and Displacement at 10.30 A.M., Aug. 17th, 1920:-

|  |   |                                |
|--|---|--------------------------------|
| Temperature of sea water ...   | ... ... ... ...   | 80° F.                         |
| Specific gravity of sea water by Baume's hydrometer  |   | 1.014                          |
| Weight of sea water per cub.ft.  | 62.373 x 1.014 =  | 63.346 lbs.                    |
| where 62.373 is the weight of 1 cub.ft. of fresh water<br>at 59° F. (Water with unit specific gravity) in lbs. |   |                                |
| Draught : Forward  | ... ... ... ...   | 5'-11 $\frac{7}{8}$ "          |
| Aft  | ... ... ... ...   | 10'-6 $\frac{1}{4}$ "          |
| Mean   | ... ... ... ...   | 8'-3 $\frac{5}{16}$ "          |
| Trim by the stern  | ... ... ... ... 4'-6 $\frac{7}{8}$ " =                          | 4.57 ft.                       |
| Draught amidships : Port   | ... ... ... ...   | 8'-2 $\frac{1}{8}$ "           |
| Starboard  | ... ... ... ...   | 8'-2 $\frac{1}{4}$ "           |
| Mean   | ... ... ... ...   | 8'-2 $\frac{7}{16}$ "          |
| Hogging  | ... ... ... h = 8'-3 $\frac{5}{16}$ " - 8'-2 $\frac{7}{16}$ " = | 7/8"                           |
| Tons per inch immersion T =  | ... ... ... ...   | 36.75                          |
| Longitudinal I of W.P. about midship I =   |   | 126,418,000 Sq.ft.<br>x Sq.ft. |
| Change of displacement by one ft. trim(35 cub.ft. per ton)   |   | 5.87 tons.                     |
| Displacement at 8'-3 $\frac{5}{16}$ " draught, even keel( Do. )  |   | 3,306.7 tons.                  |
| Correction for the trim - 4.57 x 5.87 =  |   | - 26.8 "                       |
| " " the hogging = - h x (T - $\frac{I}{105L^2}$ )  |   |                                |
| = - 7/8 x (36.75 - $\frac{126,418,000}{105 \times 385^2}$ )  |   |                                |
| = - 7/8 x (36.75 - 8.12) =   |   | - 25.1 "                       |
| Displacement corrected for the trim and hogging<br>(35 cub.ft. per ton)  |   | 3,254.8 tons.                  |
| Displacement further corrected for the density of sea water  |   |                                |
| 3,254.8 x $\frac{63.346}{64.000}$ =  |   | 3,216.5 tons.                  |



2. - Weight to Come Out of Ship:-

| <u>Item,</u>                             |                 | <u>Respective Wt.<br/>in Tons.</u> | <u>Gross Wt.<br/>in Tons.</u> |
|--|-----------------|------------------------------------|-------------------------------|
| No.1 Ballast tank                        | Empty           | 0                                  |                               |
| No.2 " "                                 | "               | 0                                  |                               |
| No.3 " "                                 | "               | 0                                  |                               |
| No.4 " "                                 | "               | 0                                  |                               |
| Feed water tank, P F.W. 2'-4"            |                 | 58.5                               |                               |
| " " " , S " 2'-6"                        |                 | 62.9                               |                               |
| Fore peak tank                           | Empty           | 0                                  |                               |
| After " "                                | "               | 0                                  |                               |
| Fresh water tank F.W. 5'-7"              |                 | 20.6                               |                               |
| Sanitary tank                            | Empty           | 0                                  |                               |
| Water in tanks, Total                    | ... ... ... ... |                                    | 142.0 tons.                   |
| Bilge water                              | ... ... ... ... |                                    | 6.0 "                         |
| Water in three boilers                   | ... ... ... ... |                                    | 62.5 "                        |
| Coal in side bunkers                     | ... ... ... ... |                                    | 3.0 "                         |
| Men on board (80)                        | ... ... ... ... |                                    | 4.7 "                         |
| Provision and crew's effects             | ... ... ...     |                                    | 0                             |
| Consumable stores                        | ... ... ... ... |                                    | 0                             |
| Temporary weight of Hull Department      | ...             |                                    | 4.3 "                         |
| " " " Engine                             | " ... ...       |                                    | 0 "                           |
| <u>Weight to Come Out of Ship, Total</u> | <u>... ...</u>  |                                    | <u>228.5 tons.</u>            |

3. - Weight to Go On Board after the Date:-

|  |                   |
|--|-------------------|
| Two bower anchors and 3.6 shackles of cable.       | 12.2 tons.        |
| Oil piping and valve spindles ... ...              | 1.5 "             |
| <u>Weight to Go On Board after the Date, Total</u> | <u>13.7 tons.</u> |

4. - Light Displacement and Draught:-

|  |               |
|--|---------------|
| Displacement on Aug. 17th, 1920, corrected for the trim,<br>the hogging and the density of sea water ... ... | 3,216.5 tons. |
| Weight to come out of ship ... ... ... ...   | 228.5 "       |
| Weight to go on board after the date ... ... ...   | 13.7 "        |
| Equipped Weight ... ... ... ...  | 3,007.7 tons. |
| Boiler water ... ... ... ...   | 59.7 "        |
| Light displacement ... ... ... ...   | 3,067.4 tons. |
| Corresponding draught ... ... ...  | 7' - 8 1/4"   |

5. - Deadweight Carrying Capacity:-

|   |                  |
|---|------------------|
| Displacement at 27'-1.33" draught (Summer Load Draught) | 12,105.0 tons.   |
| Light displacement ... ... ... ... ... ...              | <u>3,067.4 "</u> |
| Deadweight Carrying Capacity ... ... ... ...            | 9,037.6 tons.    |

