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No. 501 SHIP, "OREGON MARU."

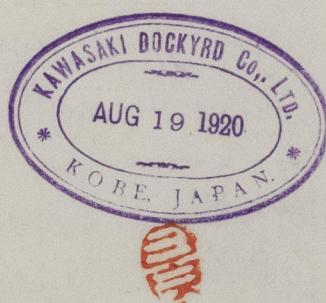
LIGHT DISPLACEMENT

AND

DEADWEIGHT CARRYING CAPACITY.

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



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Lloyd's Register
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 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. 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 (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. in Tons.</u>	<u>Gross Wt. 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, 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.

