

## LIBERTY SHIPS

Για την ιστορία των Liberty σημειώνω κατωτέρω τα τεχνικά του χαρακτηριστικά του:

### *s/s "Asteris"*

<i>Gross tonnage</i>	<i>10572 reg. tons</i>
<i>Net tonnage</i>	<i>3658 reg. tons</i>
<i>Deadweight</i>	<i>10500 tons</i>
<i>L.O.A.</i>	<i>441' 6''</i>
<i>L.B.P.</i>	<i>416' 0''</i>
<i>Breadth mld</i>	<i>56' 10 3/4''</i>
<i>Breadth extreme</i>	<i>57' 0''</i>
<i>Draught , mean, light ship</i>	<i>8' 4 1/2''</i>
<i>Draught, mean, to L.W.L.</i>	<i>28' 8 3/4''</i>
<i>Depth to upper deck mld</i>	<i>37' 4''</i>
<i>Depth to second deck mld</i>	<i>28' 7''</i>

<i>Cargo capacity:</i>	
<i>Grain capacity</i>	<i>562608 cu.ft</i>
<i>Bale capacity</i>	<i>499373 cu.ft.</i>

*Boilers:*

*Babcock & Wilcox type, with superheater*

<i>Heating surface, each</i>	<i>4852 sq.ft.</i>
<i>Oil burners</i>	<i>4</i>
<i>Pressure</i>	<i>250 lb/sq.in.</i>
<i>Working pressure lb/sq.in.</i>	

	<i>Normal</i>	<i>Maximum</i>
" " outlet	220	220
" " drum	230	237

<i>Safety valve</i>	<i>250 lb/sq.in.</i>
<i>Superheater's outlet</i>	<i>230 lb/sq.in.</i>
<i>Furnace volume</i>	<i>770 cu.ft</i>
<i>Weight of H2O to steaming level</i>	<i>14600 lb</i>
<i>Tubes: boiler generating</i>	<i>4'' &amp; 2''</i>
<i>Circulators</i>	<i>4''</i>
<i>Superheater</i>	<i>2''</i>

*Engine:*

*Hendy type, 3-cylinder, triple expansion steam reciprocating engine*

*I.H.P. = 2500 at 76 rpm*

<i>Diameter of cylinders, high pressure</i>	<i>24 1/2''</i>
<i>medium " "</i>	<i>57''</i>
<i>low " "</i>	<i>70''</i>

<i>Stroke</i>	<i>48''</i>
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*Figures:*

<i>Average fuel consumption</i>	<i>#/IHP/hour 1.095</i>
" " "	<i>#/SHP/hour 1.191</i>

<i>Fuel oil preheating</i>	<i>120 – 180 degrees F.</i>
<i>Pressure</i>	<i>120 – 160 lb/sq.in.</i>
<i>Temperatures of water in: condenser</i>	<i>120 – 150 degrees F</i>
<i>preheater</i>	<i>150 – 250 degrees F</i>
<i>boiler</i>	<i>400 degrees F</i>
<i>superheater</i>	<i>450 “</i>
<i>Maximum pressure in engine’s pistons:</i>	
<i>high pressure</i>	<i>250 lb/sq.in.</i>
<i>medium</i>	<i>80 “</i>
<i>low</i>	<i>15 “</i>
<i>Condenser vacuum</i>	<i>25’’ (max. 30’’)</i>
<i>Exhaust gases pressure</i>	<i>22 lb/sq.in.</i>
<i>Propeller: blades</i>	<i>4</i>
<i>diameter</i>	<i>18’ 6’’</i>
<i>pitch</i>	<i>16’ 6’’</i>
<i>surface</i>	<i>117 ft.sq.</i>