

19122 Iron

Port

Hull June 7<sup>th</sup>

1877

Details of Main Boilers of the Steam Ship

Laredo

672.29 tons

Diameter  $11^{\prime} 0^{\prime\prime}$  Length  $10^{\prime} 0^{\prime\prime} \frac{1}{4}$

Thickness of shell plates  $13/16^{\prime\prime}$

Description of riveting of longitudinal joints Lap, double riv. of circumferential joints Lap, double riv.

Pitch of rivets ditto  $4^{\prime\prime} \frac{3}{4}$  ditto  $3^{\prime\prime} \frac{9}{16}$

Diameter of rivets ditto  $1^{\prime\prime} \frac{1}{8}$  ditto  $1^{\prime\prime} \frac{1}{8}$

Lap of plating ditto  $7^{\prime\prime} \frac{1}{8}$  ditto  $5^{\prime\prime} \frac{1}{16}$

Size of manholes in circular shell  $10^{\prime\prime} \times 12^{\prime\prime}$

How compensated for By ring  $7/8^{\prime\prime}$ ,  $13/16^{\prime\prime} \times 7^{\prime\prime} \frac{1}{2}$

Number of furnaces in boiler 2

Diameter of furnaces  $3^{\prime} 2^{\prime\prime}$  Length of furnaces  $7^{\prime} 3^{\prime\prime}$

Thickness of furnace plates  $1/2^{\prime\prime}$

Description of joint of furnaces Double buttstrap, single riv.

Whether strengthened with rings No Greatest length between rings

Thickness of combustion chamber plating  $1/2^{\prime\prime}$

Diameter of screw stays to ditto  $1^{\prime\prime} \frac{1}{16}$  pitch of stays  $7^{\prime\prime} \frac{1}{2} \times 8^{\prime\prime} \frac{1}{2}$

End plates, thickness  $5/8^{\prime\prime}$

Diameter of longitudinal stays to end plates  $2^{\prime\prime} \frac{1}{4}$  pitch of ditto  $15^{\prime\prime} \frac{1}{2} \times 11^{\prime\prime} \frac{1}{2}$

How stays are secured By double nuts & washers

Diameter of tubes  $3^{\prime\prime} \frac{1}{4}$  pitch of tubes  $4^{\prime\prime} \frac{1}{2} \times 4^{\prime\prime} \frac{1}{2}$

Thickness of tube plates  $5/8^{\prime\prime}$

Stayed by Solid stays pitch of stays  $13^{\prime\prime} \frac{1}{2} \times 13^{\prime\prime} \frac{1}{2}$ , dia.  $2^{\prime\prime} \frac{1}{4}$

Description of steam receiver Vertical steamchest

Diameter of ditto  $4^{\prime} 0^{\prime\prime}$  length of ditto  $6^{\prime} 0^{\prime\prime}$

Thickness of plating of ditto  $1/2^{\prime\prime}$  ends top  $3/4^{\prime\prime}$ , bottom  $5/8^{\prime\prime}$

Ends, how stayed By four solid stays; dia.  $2^{\prime\prime} \frac{1}{4}$

Working pressure of Mainshell 654 p. sq. inch.

" " Furnace flue 814 " " "

" " Main stays 1114 " " "

" " Combustion Chamber stays 83 " " "

" " Flat plates 724 " " "

M. Keydell

Engineer Surveyor to Lloyd's Register of Shipping.