

S.S. Spartan

16 795 Iron

The machinery of this vessel has been overhauled and two new Boilers of a novel description fitted, of which a tracing is attached. The novelty consists in the heating surface being principally composed of vertical tubes with the water inside. Judging from the tracing these Boilers will not prove good steam generators and great difficulty will no doubt be experienced in keeping the outside of the tubes clean at sea. On the trial trip it was found very difficult to keep steam above 15 lbs. pressure although the Boilers are made strong enough to work at a pressure of 40 lbs. per square inch, the speed of vessel was only $7\frac{1}{2}$ instead of $9\frac{1}{2}$ knots as anticipated, the consumption will be so great that I believe it will be considered policy to condemn these Boilers before very long. However they are strong, well made and perfectly safe-, it is therefore respectfully submitted that a machinery Certificate be granted for a period of three months from the 28th of Decr 1875 upon the expiration of which the Boilers be again surveyed and reported, at the same time the notification Lloyds M.C. be recorded in the Register Book.

W. Parker
4/1/76



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