

Report of Survey for Repairs of Engines and Boilers.

12450

No. 692
 No. in Survey held at Sunderland. Date, first Survey Oct 27th Last Survey Nov 25th 1881
 Reg. Book. 597 on the Machinery of the Iron Screw Steamer "Charles Howard." (Number of Visits 9)
 Tonnage, Gross 1304 Built at Sunderland. When built 1866
 Ditto, Net 844 Owners W Briggs & Sons Port belonging to Sunderland
 Diameter of Cylinders 27 & 49 Engines made by Kincaid, Donald & Co. Glasgow When made 1877
 Length of Stroke 14.0 Boilers made by Kennie & Co. London. When made 1873
 Pressure of Steam single crank. 56 lbs If Surveyed Afloat or in Dry Dock Both
 Registered Horse Power 120 Years assigned 7.81 Character in Register Book 90 A.1.
 Last Survey No. 7.81 Classed Lloyd's M.L. 8.78.75 & 12.80

Particulars of Repairs and Examination of Engines and Boilers in accordance with the requirements of rules for Special Survey No 1 for Iron Ships.

This vessel was placed in Messrs Austin & Son's graving dock and all the sea cocks, valves and propeller examined. Found the after brass liner on propeller shaft loose. This length of shaft was taken out and trued up in lathe and a new liner fitted. The propeller boss, bushed and re-bored out to fit shaft. New lignum vitae fitted in stern bush. The crank shaft, thrust and all bearings up tunnel examined and found in good condition. The cylinders, pistons, slide valves, air, and circulating pumps all examined and found in good order. All sluices on bulkheads in working order. Boilers examined and several faulty patches in combustion chambers and on bottom of boilers renewed, had some new rivets put in round bottom front end of two furnaces & boilers caulked where requiring it. Found the safety valves in good working order, tried them under steam and found them to blow off at 56 lbs. Donkey Boiler and its safety valves also examined and adjusted to blow off at 45 lb per square inch.

General Observations, Opinion, and Recommendation:— In my opinion the machinery of this vessel is now in good order and safe working condition and eligible for the notification of Lloyd's M.L. 11.81 in the Register Book. I would recommend that the Boilers be again surveyed in 12 months as per rule.

For Registering Fee ... £ 1 : 0 : 0
 Fee ... £ 2 : 2 : 0 received by me,
 Certificate (if required) ... £ - : 2 : 6/12 Decr 1881
 Any Expenses, if any, £

Committee's Minute

Geo A. Milner
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

