

Report of Survey for Repairs of Engines and Boilers.

No. 68

No. in Reg. Book. Survey held at Newcastle Date, first Survey 25th Feb Last Survey 7th March 18 78

570 on the Iron S.S. Charles Copper Master J Walker

Tons 479 Owners Dixon & Harris Port belonging to London Classified Lloyds mc 11/76

Character in Register Book 85-A1 Years assigned 11/76

Diameter of Cylinders 24 3/8" Engines made at Newcastle When made 1864

Length of Stroke 30" Pressure of Steam 35 lbs

Registered Horse Power 91 By whom made R & W Hawthorn

Particulars of Repairs and Examination Damage to Propeller.

On examination found that one of the three blades which form a solid propeller was broken off close to the boss. The break running at a slight angle across the blade leaving about 5 inches of a stump at aft end of boss, found the stern shaft at bush in stern tube worn down through the ligament circle leaving 7/8 of an inch clearance between the shaft and the bush. on examination of the stern shaft in the workshops find no indication of it being bent or strained. Recommended new propeller to be fitted over end of boss liner on shaft, and new ligament circle into stern bush, also made a careful examination of crank shaft which does not appear to be injured in any way, and is apparently sound. The above repairs having been satisfactorily completed, the machinery of this vessel is now in good order, and safe working condition, and in my opinion eligible to retain her class in the Society's Register Book.

The Amount of Fee ... £ 2 : 2 : , received by me, Certificate (if required) ... £ - : - : - 26 March 1878

(Travelling Expenses, if any, £) Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute 18 North Shields

This vessel appears eligible, so far as regards her machinery & boilers, to retain her present class in the Register Book. M. 30/3/78

(Condition of Engines and Boilers, and subsequent Repairs and Examinations, to be clearly stated.)