

# Report of Survey for Repairs of Engines and Boilers.

No. 107886  
 No. in Reg. Book. 107886 Survey held at London Date, first Survey 20th Decr 1875 Last Survey 15th May 1877  
 on the Kirkcaldy Master James J. J. J.

Tons 298 Owners London & North Western S.S. Co. Port belonging to London Years assigned 1 Character in Register Book A1  
438

Diameter of Cylinder two 12" & two 34" Engines made at Northfleet When made 1870  
 Length of Stroke 24"  
 Pressure of Steam 6 1/2 lbs  
 Registered Horse Power 70 By whom made James Allibone, Noyes & Co.

## Particulars of Repairs and Examination

Vessel placed on patent slip and stern tube, propeller, screw shaft and all connections examined. New packing rings fitted in high pressure pistons. One new high pressure slide valve, and both H.P. slide valve spindles renewed. Glands and brackets for ditto polished, valve gear thoroughly overhauled and adjusted. New junk rings with bolts for same, and new springs fitted in low pressure pistons. New pins and braces in top and bottom ends of connecting rods for circulating pumps. Air pump overhauled and valves renewed. Condenser tubes drawn and condenser cleaned. New bilge and feed pump plungers with new glands and packing rings. Crank pins disconnected and all the main bearing covers lifted and shafting examined. All the working parts of engines overhauled and adjusted. New suction cock fitted to ballast donkey as recommended and arranged so that water cannot unintentionally be run from the sea into the bilge.

Boiler retubed. Some loose joints in shell renewed. Two stays fitted in dome. Pressure on boilers reduced to 6 1/2 lbs by taking 25 lbs off weight on end of safety valve lever.

New safety valve 3" dia with new chest fitted on donkey boiler height of valve 8 lbs. Weights 23 9 lbs. Working pressure 34 lbs.

The machinery and boiler of this vessel is now in good order and safe working condition and in my opinion eligible for the certification & Lloyd's M. C. in the Register Book.

The Amount of Fee ... £ 3 : 10 : 0 received by me,

Certificate (if required) ... £ 0 : 5 : 0 26th May 1877

(Travelling Expenses, if any, £ )

Committee's Minute

18

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