

Report of Survey for Repairs of Engines and Boilers.

No. 1165 Survey held at London Date, first Survey 14 Jan'y Last Survey 28 March 1884
 Reg. Book. 1165 on the Machinery of the J. S. "Hole" (Number of Visits 15)
 Tonnage, Gross 1436 Built at Glasgow When built 1870
 Ditto, Net 923 Owners J. Warrack & Co Port belonging to Leith
 Diameter of Cylinder 33 60 Engines made by J. Howden & Co When made 1870
 Length of Stroke 39 Boilers made by 1876
 Pressure of Steam 60
 Registered Horse Power 170
 If Surveyed Afloat or in Dry Dock Albert Dr & Co Classed 95 A1
 (State name of Dock.)
 Last Survey No. 170 Port L. M. C. 12-80

Particulars of Repairs and Examination Special Survey & Repair to
 (State cause of Repairs.) Boiler & Engines.

Examined Sea cocks and connections & found them good. New lignum vitae and a new tailshaft have been fitted.

Examined the pumps slide valves & safety valves and found them good. The low pressure cylinder was found to be cracked at the lower steam part. These parts have been patched. The high pressure cylinder was in a good condition. The aft crank shaft was in a good condition, the forward one (very much thinner) was cracked & has been renewed by a crank shaft $\frac{3}{4}$ " thicker.

Examined the donkey boiler. The tubes have been renewed. This boiler is now in a good working condition.

Examined the ~~double~~^{ended} main boilers, before and after they were lifted out of the vessel. 4 furnaces have been renewed, and the combustion chambers & furnace fronts repaired and the tubes renewed. The Boiler was tested to 90 lbs hydraulic pressure and 60 lbs Steam pressure. The safety valves were found to blow at this pressure.

General Observations, Opinion, and Recommendation:— The machinery of this vessel appears now to be in a safe working condition and is in my opinion eligible to have the notification L. M. C. 3. 84 recorded in the Register Book.

Entry or Registering Fee... £ 6 : 6 : 0
 (per Section 27.)
 Survey Fee (per Section 28) ... £ 5 : 0 : 0
 Certificate (if required) ... £ 0 : 0 : 0
 to be sent as per margin.
 (Travelling Expenses, if any, £ 0 : 0 : 0)

received by me,

FRIDAY 25 APRIL 1884

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

Committee's Minute

Assigned



Lloyd's Register Foundation

LON672-0395

It is submitted that this vessel
is eligible to have the notification
Ln 63.84 recorded, the boilers being
subject to resurvey as per Rule

D.P.

19/4/84

2-10-84



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Boilers and Engines of Vessels to be surveyed for the purpose of obtaining a Certificate of Survey for the purpose of trading