

Report of Survey for Repairs of Engines and Boilers.

No. 227
No. in Reg. Book 217
Survey held at Newcastle
on the Iron Steamer of the Baln
Master M. Nicholson
Built at Sunderland
When built 1876-2nd mo.
Tons 1182
Owners J. Day, ~~William~~
Port belonging to Newcastle
Classed 90 A 1
1813
Lloyds M.C. 5. 78
1745
Diameter of Cylinder 26 & 5-8
Length of Stroke 42
Pressure of Steam 80 lb
Registered Horse Power 170
Engines made at Newcastle
When made 1876
By whom made Messrs R. Stephenson & Co.

Particulars of Repairs and Examination The Boiler of this vessel has been examined for damage, also the Machinery examined for Special Survey No 1, Found that the boiler which is of the Locomotive type with two furnaces in each end has become unsafe through the four furnaces collapsing at the sides immediately above the fire bars, the furnaces are 4 feet internal diameter, by 6 feet 6 inches long, thickness of plates 7/16 with an expansion flange about 3 feet 6 inches from front of boiler, the furnaces have been gradually collapsing, and have been stiffened from time to time at different Ports as they gave out. See Log book, consider the furnaces dangerous and recommend them to be cut out, and new furnaces fitted in one length 6 ft 6 inches long by 9/16 inch in thickness, which will give 87 lb as the safe working pressure on the furnaces. Also the dished end plate in the Starboard aft furnace which is cracked in the neck of contracted opening into C Chamber as well as seriously Camincated in two places is recommended to be taken out and new plate fitted. Cylinders, Balances & Balances examined, Satisfactory, crank shaft examined, Satisfactory, Air and Circulating pumps examined, Satisfactory, Crosshead between cylinders defective to be removed and new Crosshead fitted, Condensers and Engines otherwise, Satisfactory. The repairs to Boilers being now finished and the boilers tested by hydraulic pressure to 95 lb per sq inch Satisfactory, and the above repairs to Machinery Satisfactorily completed, the Machinery of this vessel is now in good order and safe working condition and eligible in my opinion to retain her class in the Society's Register book.

Damage Survey 2 : 2 :
The Amount of Fee ... £ 4 : 4 : received by me,
Certificate (if required) £ - : - : - 25 Oct 1879
(Travelling Expenses, if any, £)
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

The Machinery of this vessel has been examined
in accordance with the requirements of S.P.
No 1 and reported to be in good working
condition submitted that she is eligible
to remain as classed and have -
Lloyd's M.C. noted in the Register
Book - from 30 Sept 1879 - also -

28th 10/79 *MD* 27.10.79



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Foundation