

# Report of Survey for Repairs of Engines and Boilers.

No. 69 Survey held at Sunderland and the Tyne Date, first Survey Feb'y 8<sup>th</sup> Last Survey 18<sup>th</sup> Feb'y 1878  
 on the Steam Ship John Johnasson 331 Tons  
 Owners J. Johnasson Port belonging to London 490 Tons  
 Years assigned. 1 Character in Register Book. A 1  
 Classified

Diameter of Cylinder 36. 2 off Engines made at Sunderland When made 1870  
 Length of Stroke 30  
 Pressure of Steam 40 lbs By whom made North Eastern Marine Engineering Co.  
 Nominal Horse Power 80

Particulars of Repairs and Examination Examined all the sea cocks and valves when the vessel was on Messrs. Shirey & Co's slipway, and found them in good condition. New propeller fitted. Examined the crank shaft and found a longitudinal surface mark six inches long in the after bearing of it, which does not affect the strength or working of the shaft. Examined the tunnel shafting as far as could be ascertained without taking to pieces, and found it in good condition. Examined the cylinders, slide valves, and cylinder faces & found them in good condition. The pistons were fitted with Politt and Wiggell's patent packing rings and springs. The Main Boiler cleaned, and repaired on the bottom at joint, which had been leaky. A furnace plate partly renewed, and a few tubes renewed, examined the boiler and found the top part, and dome, in very good condition, but the bottom was beginning to corrode in some places. On examination of the superheater, which was of the annular description, found it to be very thin by corrosion inside, the internal chamber of it was only  $\frac{1}{2}$ " thick; it was taken out of the ship as unfit for use, and a copper pipe encased with iron, to prevent the heat acting on it. fitted across the space where the superheater was taken from. Examined the safety valves of the main boiler and found them to be correctly loaded to a working pressure of 40 lbs and in good condition. Examined the Donkey Boiler as far as could be seen, without removing it out of its recess, and found it in good condition, except the roof of the fire box, which was partly corroded, Examined the safety valve of it, and reduced the weight on it from 45 lbs working pressure to 25 lbs. Drain cock from after ballast tank into the engine room, removed and the hole closed up. Non return valves fitted to the bilge suction of the engine room and after hold, in order to prevent sea water being run into the vessel by mistake. A new Governor on Durham's patent, fitted.

In my opinion the Engines and

The Amount of Fee ... £ 4 : 0 : received by me, }  
 Certificate (if required) ... £ 0 : 5 : 1<sup>st</sup> April 1878. }  
 (Travelling Expenses, if any, £ 0.10. ) 4.5

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

Committee's Minute

24 No Charge 18  
 per Survey



And Boilers of this vessel are in good order and safe  
working condition.

W. A. 2052 1/4 Iron

The Machinery and Boilers of this vessel have  
been repaired and are reported to be in  
good condition submitted that she is eligible  
to remain as classed.

MD 5-4-78



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Foundation