

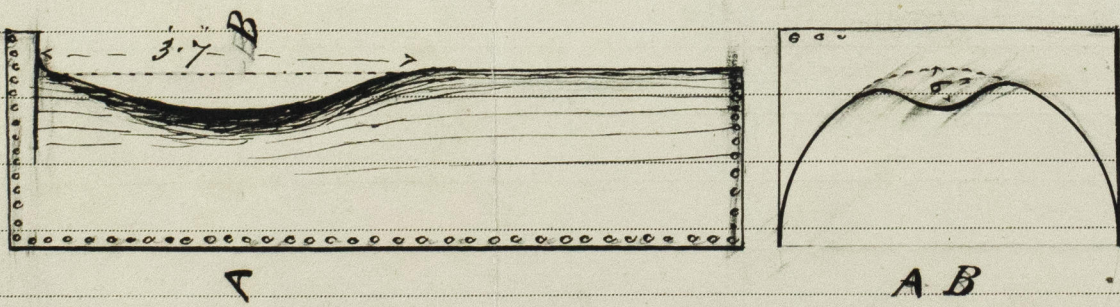
# Report of Survey for Repairs of Engines and Boilers.

(Recd 8/4/78)

Survey held at Sunderland Date, first Survey February 26<sup>th</sup> Last Survey March 15<sup>th</sup> 1878.  
 on the Steam ship "Hartlepool" 415 Tons  
E. J. Gourley Port belonging to Sunderland Classified Years assigned. Character in Register Book. A 1

of Cylinders 34½ 2 off Engines made at Sunderland When made  
 Stroke 28  
 of Steam 35 lbs By whom made G. Clarke  
 Horse Power 70

Particulars of Repairs and Examination Examined the propeller and shaft as  
 as could be seen, without disconnecting, and found them in good  
 condition, and the shaft not worn down; and all the sea cocks and  
 valves examined and found in good condition, when the vessel was in  
 graving dock. Examined the Crank shaft and found in good  
 condition. Examined the Donkey Boiler and its safety valves and  
 found them in good working order. The Crown plate of the starboard  
 furnace of the main boiler was bulged downwards six inches and  
 the bulging extended a length of three feet seven inches from the back  
 end (see annexed sketch) There being no signs of the plate being  
 laminated, and no cracks in it, I am of opinion that the bulging  
 has been caused by allowing too much salt and grit to remain on  
 the top of the furnace, there being a quantity of it in the bulged  
 part; On examination of all the other internal parts of the boiler  
 I found them clean and in good condition. There was a new <sup>Crown</sup> plate  
 fitted by the North Eastern Marine Engineering Coy. who had made  
 the boiler in 1876. Examined the safety valves of the main boiler,  
 and was present on March 15<sup>th</sup> when steam was raised and the  
 safety valves tested, and found correct at 35 lbs working pressure.  
 In my opinion the Engines and Boilers of this vessel are in good  
 order and safe working condition.



The Amount of Fee ... £ 3 : 3 : received by me, W. Allison  
 Certificate (if required) ... £ : : 14<sup>th</sup> April 1878  
 (Travelling Expenses, if any, £ )

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

Committee's Minute 18



Machig been examined and again  
submitted that she is eligible to  
remain as classed.

MM 8.4.78



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