

# Report of Survey for Repairs of Engines and Boilers.

No. 45  
 No. in Reg. Book. Survey held at *Antwerp* Date, first Survey *—* Last Survey *19<sup>th</sup> February 1880*  
 23 on the Machinery of the *Iron S.S. Cartago No. 2* (Number of Visits *one*)  
 Tonnage, Gross *1638* Built at *Newcastle* When built *1870*  
 Ditto, Net *1293* Owners *Hall Bn* Port belonging to *London*  
 Diameter of Cylinder *30 and 54 inches* Engines made by *Palmer & Co. Jarrow* When made *1870*  
 Length of Stroke *33 inches* Boilers made by *J. & Co.* When made *1878*  
 Pressure of Steam *75 lbs* ☒ Surveyed Afloat ☐ or in Dry Dock  
 Registered Horse Power *120* Years assigned *90* Character in Register Book *AI*  
 Last Survey No. *—* Port *—*

## Particulars of Repairs and Examination

At the request of the Master, I repaired on board the above named steamer for the purpose of examining and ascertaining the state of the Crank shaft.

On inspection found in the forward fillet of after Crank pin a crack one third round in circumference underside of Crank pin extending diagonally one and a half inch in the length of the pin.

The said defect having been carefully examined was found not committing, just now, the safe working of the Engines and the general state of Machinery being certified to be in good working condition.

I am of opinion that the ship may proceed in safety from here to Shields (Tyne) where the crank shaft will be replaced by a new one.

## General Observations, Opinion, and Recommendation:—

Entry or Registering Fee ... £ — : — :  
 Survey Fee ... £ 1 : 1 : 0 received by me,  
 Certificate (if required) ... £ : : 23<sup>rd</sup> February 1880  
 Travelling Expenses, if any, £

*J. D. Dumbell*  
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute 18

Assigned



This vessel has had crank  
shaft examined & found to be  
flawed. a new shaft is to  
be fitted at Shields. It  
is submitted that she  
remain as classed

DM

26/2/80



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