

Report of Survey for Repairs of Engines and Boilers.

No. *5103* (Received at London Office, *7/6/80*)
 No. in Survey held at *Renfrew & Glasgow* Date, first Survey *May 21st* Last Survey *May 29th* 1880
 eg. Book. *9* on the Machinery of the *S. S. "Bertha"* (Number of Visits *4*)
 Tonnage, Gross *398* Built at *Glasgow* When built *1864-10mo*
 Ditto, Net *207* Owners *J. Wingate & Sons* Port belonging to *Glasgow*
 Diameter of Cylinder *22" + 40"* Engines made by *Wincaid & Donald* When made *1884*
 Length of Stroke *24"* Boilers made by *"* When made *1874*
 Pressure of Steam *60lbs* If Surveyed Afloat or in Dry Dock *Afloat & in Dry Dock* Classed *A1*
 Registered Horse Power *40* Years assigned *3.49*
 Last Survey No. Port

Particulars of Repairs and Examination Engines opened up and new piston ring fitted in high pressure Cylinder, Crank Shaft journals examined, and all the working parts overhauled & examined, New propeller fitted, and two Sea Cocks which were under the Stowhold plates moved to the upper turn of the Bilge.

Main Boiler, retubed, and several Screwed Stays renewed, and thoroughly cleaned.

Donkey Boiler, cleaned & examined, reduced the pressure to 25lbs, and recommended this Boiler to be renewed.

General Observations, Opinion, and Recommendation: The above Repairs have been satisfactorily completed by Messrs Lobnitz, Coulborn & Co., but in consequence of the defective condition of the Donkey Boiler I am of opinion the notation of Lloyd's M.C. be deferred until it is renewed, which the owners have arranged to do as soon as one can be made.

Entry or Registering Fee ... £ ...
 Survey Fee ... £ 2 : 2 : received by me, *James Morrison*
 Certificate (if required) ... £ ... June 1880

(Travelling Expenses, if any, £ 1.1.0)

Committee's Minute

Assigned

James Morrison
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.
Clyde District



It is submitted that the
usual is slight to
remain as classed

DM
7/6/88



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Foundation