

# Report of Survey for Repairs of Engines and Boilers.

No. 4970 \* 24443  
 No. in Survey held at Glasgow Date, first Survey Sept 25 Last Survey Oct 4 1879  
 Reg. Book. 1034 on the S. S. "Columbia" Master J. Murray

Built at Glasgow When built 1872-10 m  
 Tons 1297 Owners Donaldson Bros Port Belonging to Glasgow Classified 1008A1  
2001 Lloyd's M.C. 10.449 for 12 mo 8.77

Diameter of Cylinder 8 1/4" & 7 1/8" Engines made at Glasgow When made 1872  
 Length of Stroke 48"  
 Pressure of Steam 60 lbs  
 Registered Horse Power 265 By whom made Barclay Curle & Co S.S. No 2 and

Particulars of Repairs and Examination In consequence of this vessel having been sunk in the St. Lawrence. The Engines have been opened up and all the working parts taken asunder, cleaned & overhauled. The After Length of Crank Shaft renewed the length taken out being badly flaked. All pump & pipes & rods cleaned & overhauled. Propeller renewed, and Stern bush and sea cocks & valves overhauled in dry dock.

Boilers, retubed and a number of rivets in Furnace fronts renewed, an angle iron stiffening piece fitted on the bottom of each Furnace under Combustion Chamber.

Superheater Tubes (four) drilled at parts most corroded & found to be 9/16" thick, an additional angle iron ring has now been fitted on each tube, and another manhole cut to facilitate inspection.

New Spring loaded Safety Valves now fitted and all pressure gauges repaired and re-adjusted.

Boilers & Superheater, on completion, tested by hydraulic pressure to 40 lbs per inch.

The Engines & Boilers of this vessel are now in good and efficient condition and shippable in my opinion. Remains as classified and to be noted in the Register Book, Lloyd's M.C. 10.449 for 12 months when it will be desirable to again open them up for survey. The Furnace being somewhat pitted and Superheater Tubes corroded (See Glasgow Report 4571).

The Amount of Fee £ 8 : 8 : - received by me,  
 Certificate (if required) ... £ .. : .. : .. Oct. 1879  
 (Travelling Expenses, if any, £ ..)

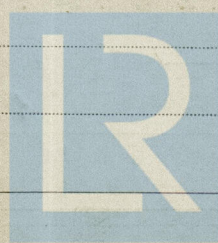
James Morrison  
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.  
Clype District

Committee's Minute 18



The Machinery of this vessel has been examined and repaired going to her homey Port in the River St Lawrence and is now reported to be in good condition, it is submitted that she is eligible to have the notificate Lloyd's M.C. 10.79 and a certificate from that date, but looking to the age and condition of the Boilers it is further submitted that they should be again examined in twelve months from the above date.

*MD*  
16.10.79



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