

21496

# Report of Survey for Repairs of Engines and Boilers.

No. \_\_\_\_\_  
No. in Reg. Book. Survey held at London Date, first Survey m Last Survey 5th Feb. 1877  
on the S. J. Cowland Master

Tons 503  
1241  
1221  
Owners Leith, Hull, Hamb & S. F. Coy belonging to Leith Last No 21496 - Iron  
Classed 100 A1  
Years assigned. Character in Register Book.

Diameter of Cylinder 1-30" & 1-54"  
Length of Stroke 36" Engines made at Glasgow When made 1872  
Pressure of Steam 6.3 lbs  
Registered Horse Power 130 By whom made Messrs J. Napier & Sons

## Particulars of Repairs and Examination

Cylinder & valve casing covers lifted and pistons and slide valves examined. Circulating and air pumps overhauled and rubber valves renewed where required. Covers of Crank shaft bearings removed and shaft examined. All the working parts of engines overhauled and adjusted. The vessel placed in the dry dock and stern tube propeller, screw shaft and all connections examined. Non return valve fittted on suction pipe of ballast donkey in order to prevent an unintentional communication between the sea & bilge. Backs of two combustion chambers in port boiler and of one in starboard boiler partly renewed. Forty three screwed stays renewed in back of combustion chambers of port and twelve in back of combustion chamber of starboard boiler. Some caulking done to furnaces and bottom of boilers.

The Machinery and boilers of the vessel are now in good order and safe working condition and in my opinion eligible for the notification Lloyd's M.C. in the Register Book

The Amount of Fee ... 1/2 2/7 £ 3 : 3 : 0 received by me,  
Certificate (if required) 7/11 1/8 : : 187  
Travelling Expenses, if any, £ \_\_\_\_\_

James Bain  
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute 8th January, 1878.

