

# Report of Survey for Repairs of Engines and Boilers.

No. *206* in Reg. Book. Survey held at *London* on the *S.S. Ocean* Master *(8 Visits)*  
 Built at *Glasgow* When built *1870* Owners *C. Williamson* Port belonging to *Leith*  
 Tons *378* Years assigned *A 1* Character in Register Book *3.78*

Diameter of Cylinder *31 1/2* Length of Stroke *33* Pressure of Steam *60* Registered Horse Power *150*  
 Engines made at *Glasgow* By whom made *Londont Glasgow Eng Co*  
 When made *1870*

Particulars of Repairs and Examination for S.S. No. 2. Vessel placed in Dry Dock and sea cocks &c examined propeller shaft drawn in and examined and found in good condition, new strips of lignum vitae fitted to stern bush, shaft replaced and propeller refixed. Cylinders examined and found in good condition, pistons examined & found good piston springs reset. Slides examined and found good Crank shaft examined and found sound and in good condition, Air Circulating, Feed & Bilge pumps overhauled and placed in good working order. Non return valve fitted to bilge suction pipe from donkey engine.

Donkey Boiler examined, patch riveted on lower part of furnace, and boiler cleaned, holes drilled in furnace crown and crown of boiler to ascertain thickness, found to be  $3/8$ th bare, which is sufficient for the loaded pressure (25-lbs) Safety Valve examined and found correctly loaded, value reground in. Main Boilers examined, 3 furnace crowns cut at back end where the plate was badly cracked at rivet holes and properly fitted patches fitted, the other furnace crown re-riveted to the tube plate. Patch fitted on front of Port Boiler between the furnaces. 8 patches fitted to the Combustion chambers, six at screw stays at the bottom back of each chamber renewed with ferrules over the stays, 12 additional screw stays fitted in lower part of water side and middle water spaces in each boiler to compensate for the adjacent screw stays being wasted. Additional five large stays in steam space of boiler renewed. Combustion chamber plating drilled to ascertain thickness, thinnest part found to be  $3/8$ th. Safety valves (one lever & weight valve  $5\frac{1}{4}$  inches diameter to each boiler) examined and weights found split by corrosion, these have been repaired.

Amount of Fee *£ 5 : 5 : 0* received by me, *C. J. Milton*  
 Certificate (if required) *£ :*  
 Travelling Expenses, if any, *£ :*

Committee's Minute

Thursday, March, 25th 1880

Sent to Dun. 18/5/81

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



Lloyd's Register Foundation

LN 661-0455



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and the valves are now loaded to 55 lbs per square inch.

105 new tubes fitted to Boilers and funnel renewed.

The Boilers and machinery of this vessel are now in good order and safe working condition, and in my opinion renders her eligible to have the notification B & M.S. 3.80 recorded in the Register Book, but in my opinion the Boilers should again be examined in 12 months from this date by an Engineer Surveyor to this Society.

J. J. Milton



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