

Report of Survey for Repairs of Engines and Boilers.

No. 83

No. in Reg. Book. Survey held at Sunderland Date, first Survey July 3rd Last Survey July 12th 18 78

233 on the Steam Ship "Pylaw" Master E. J. Preston

Tons 593 Owners Commercial S.S. Co. Port belonging to London Years assigned. Character in Register Book.

Diameter of Cylinder 38" (2 off) Engines made at Sunderland When made 1869
Length of Stroke 30 Pressure of Steam 31 lb By whom made North East Marine Engineering Co.
Registered Horse Power 90

Particulars of Repairs and Examination This vessel was in the Graving Dock here Examined propeller & shaft as much as could be seen without disconnecting them. The shaft at after end is worn down $\frac{1}{4}$ nearly. The propeller is in good condition and appears tight on the shaft. All the sea cocks & valves have been examined & overhauled & are now in good condition. Examined the bearings of crank and thrust shafting & found them in good condition. The forward Crank has an iron pin $\frac{1}{4}$ inches dia fitted through the crank pin. to compensate for two longitudinal flaws about $4\frac{1}{2}$ inches in length. I am informed this pin was fitted about two years ago. it now appears safe and is in good condition. After cylinder opened up and the piston examined and overhauled. Circulating feed & Bilge pumps & connections opened up & overhauled as required. on examination of sea Bilge & Ballast Tank connections found that water from sea could be run into the ship at Doukey suction Bilge Injection and by two drain cocks on tanks. this has been altered by fitting two nonreturn valves & removing the drain cocks.

Examined main boiler & found several stays in steam space very much corroded and shell plates in fronts of ash pits also several places in combustion chambers very thin. The stays where deficient have been made good and the thin places patched & strengthened & beams & ribs in bottom of shell caulked & rivets renewed as required.

Found the safety valves in good working order & loaded direct to 40 lb working pressure. reduced the weights on them to 30 lbs working pressure. The superheater is a cylindrical chest in stand about 2 feet dia & 9 feet high. drilled holes in it & found the plate $\frac{1}{4}$ inch thick.

The downy boiler was in fair condition. but getting thin in places reduced the weights & shortened the lever to 30 lb working pressure.

In my opinion the Engines & Boilers of this vessel are in a safe working condition and eligible for the continuation of licence 1

The Amount of Fee ... £ 4 : 10 : received by me, M. J. Geger
Certificate (if required) ... £ ... 2nd Augst 1878

Travelling Expenses, if any, £

Committee's Minute 18

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

Sunderland

Submitted that this record is
eligible to remain as closed.

MD 6.8.78



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Foundation