

Report of Survey for Repairs of Engines and Boilers.

No. 24974
 No. in Reg. Book. 6/11/79
 Survey held at Hongkong Date, first Survey 30th Aug 1879
 on the Spanish Steamer "Lamboanga" Master V. Aranguren
 Built at Sunderland by Laing When built June 1874
 Tons 651 Owners J. M. Quioga Port belonging to Manila Years assigned 1 Character in Register Book. 100 A1

Diameter of Cylinder s 28" r 54" Engines made at Sunderland When made 1874
 Length of Stroke 30"
 Pressure of Steam 70 lbs By whom made North Eastern Engineering Coy.
 Registered Horse Power 120

Particulars of Repairs and Examination

Machinery

All working parts of the Engines were opened out and carefully examined, and I discovered no defects that I have to report on, as the whole was found in good order. Slide valves, ^{condenser were tight} pistons and a good vacuum obtained.

While the vessel was in dry dock from the 26th to the 30th inst. the sea cocks and stern gland, were all overhauled and repacked. Propellor shaft, bearings, were found to be very little worn, and the propellor was a good fit, and tight on the shaft. Bilges were thoroughly cleaned out, proper rose boxes fitted to each connection. Tunnel door worked freely and was tight when shut down.

Boilers.

Inside were carefully inspected, and found to be very clean and free from incrustation and deposit. The plates, rivet heads, and stays, were all sound, and showed almost no deterioration from pitting or corrosion, with the exception of the furnace sides in line of fire bars, where they were found to be slightly pitted. A few small holes were bored in the thinnest parts, and the thickness found to be barely $\frac{3}{8}$ th. on the crown of centre furnace of starboard boiler, the plate is slightly laminated, a turned bolt with thin head and nut, was put in centre of bulge, which has prevented the plate from opening further. Steam domes had no appearance of deterioration, the surface of the plates and rivet heads being entirely free from corrosion. Boiler mounting

The Amount of Fee £ 50 : received by me, 187
 Certificate (if required) £ : : 187

(Travelling Expenses, if any, £)

Committee's Minute 18

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

24974 Iron

was all in good order, and the Safety valves correctly loaded to 70 lbs. Boiler bearers, and stay rods, were all secure and substantial. Steam gauges, one to each boiler were correct and their connections to the boilers all tight.

Donkey Boilers.

Was found in good condition with all the mountings in order, and the Safety Valve loaded to 40 lbs on the square inch.

Hongkong 30th August 1879.

I hereby certify that the whole of the
aforesaid Machinery and Boilers, of the Spanish Steamer
"Zamboanga", whereof Y. Aranguren is Master, 651 tons
Register, and 120 Horse Power Nominal, have been carefully
inspected by me at this port, and I found the same at
this date, in good order and safe working condition.

J. C. Lillie
Marine Engineer

The Machinery of this vessel - has been examined
at Hong Kong - and is reported to be in good
condition submitted that she is eligible to
remain as cleared -

MD 6.11.79



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