

Report of Survey for Repairs of Engines and Boilers.

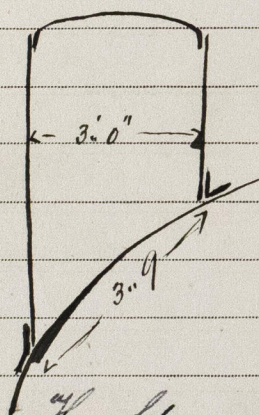
Survey held at London Date, first Survey Last Survey July 14th 1877
 Surveyor H. P. Stephenson Master
 Owners Gen Innes & Co Ltd belonging to London Classified Years assigned Character in Register Book 90.A.1

Diameter of Cylinder 28 1/4 Engines made at Newcastle When made 1872
 Length of Stroke 30 By whom made Thompson Boyd & Co
 Pressure of Steam 60 lb. Registered Horse Power 120

Particulars of Repairs and Examination. Cylinders examined and found good. Slide valves, expansion valve and cylinder faces examined and found good. Main bearings adjusted. Crank shaft examined and found good. A few longitudinal red marks in it but no serious ones. Sea cocks examined and ground in. Non return valve put on donkey bilge suction pipe to prevent water from running from the sea into the bilge. Circulating and Air pumps overhauled. Bilge injection valve overhauled, and the machinery generally put in good working condition.

Donkey Boiler lifted and lower cross tube taken out and new one fitted.

Main Boiler Safety valves examined and ground in. Main Boiler examined and found to be in good condition. These Boilers are fitted with steam domes, the per sketch, the tops are dished, but shell plates are not stiffened or stayed.



From the diameter and thickness of these shell plates, they would, if stays were fitted be fit to work at a pressure of 70 lb per sq inch whilst the safety valves are only loaded to 60 lb per sq inch.

The steam wrench pipes are so arranged that direct communication may be made from main to donkey boiler, the latter is only loaded to 40 lb per sq inch.

Propeller unshipped and shaft lined up.

The machinery and boilers of this vessel are in good order and safe working condition with the exception of the steam domes. It is respectfully submitted that she is eligible to remain as classed.

The Amount of Fee ... 26/7/77 £ 2 : 2 : 0 received by me, James Gilton
 Certificate (if required) ... £ : : 28/7/1877

(Travelling Expenses, if any, £)

Committee's Minute 31st July 1877

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

London

James Gilton

Lloyd's Register Foundation