

Report of Survey for Repairs of Engines and Boilers.

No. *22456*
 No. in Reg. Book. *52* Survey held at *London* Date, first Survey *Oct 30th* Last Survey *Nov. 29th* 18*78*
 on the *S. S. Vasco de Gama* Master
 Built at *Renfrew* When built *1873*
 Tons *1980* Owners *China Tram Port* Port belonging to *London* Classified *100A1*
Running deck

Diameter of Cylinder *54 & 102* Engines made at *Renfrew* When made *1873*
 Length of Stroke *52* Pressure of Steam *65 lbs.* By whom made *Henderson & Co.*
 Registered Horse Power *530*

Particulars of Repairs and Examination *Cylinder covers lifted & cylinders scraped, pistons overhauled and A.P. piston fitted with new Camerons Springs. Slides & cylinder faces filed up. Expansion Valve tried up. Soot motion overhauled. Crank & Tunnel shafts examined. Air & Circulating pumps overhauled. 2 Bilge suction cocks to Circulating pumps altered to non-return valves and 3 bilge suction cocks to donkey also altered.*

Main Boilers examined, several patches fitted to sides of combustion chambers, and several tubes renewed. Holes drilled in chamber plating to ascertain thickness which was found $\frac{1}{2}$ bare. Superheaters drilled and thickness found $\frac{7}{16}$. Front plates of boilers in uptakes fitted with guard plates, 2 of them having been found slightly bulged. Safety valves overhauled and their loads checked. Safety valves to superheater overhauled.

Donkey Boiler is to be taken out of the vessel at Southampton and a new one fitted.

Blow off Cock on port side fitted with new bolts. Sea connections ground in when vessel was in dry dock and propeller examined.

The machinery of this vessel is now in good order and safe working condition.

The amount of fee ... £ 6 : 6 : 0 received by me, Certificate (if required) ... £ : : 187

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



IRON 482-0073

The Machinery of this vessel has been
Surveyed at No. 1 Survey and is reported
to be in accordance with the Rules
and in good working condition.

Submitted that she is eligible
to have Lloyd's M.C. and
a machinery certificate dated
29th November 1878

MP
6.11.78

