

Report of Survey for Repairs of Engines and Boilers.

No. 21

No. in Reg. Book. Survey held at Cardiff Date, first Survey Jan'y Last Survey Feb 7 20 1878

857 on the S S Maria Master J. Church

Tons 149 Owners J. B. Gorch Port belonging to London Years assigned 90 Character in Register Book. A1

Diameter of Cylinder 25 1/2" x 48" Engines made at Newcastle on Tyne When made 1842
Length of Stroke 30" Pressure of Steam 65" By whom made Messrs R. & W. Hawthorne
Registered Horse Power 95

Particulars of Repairs and Examination after the vessel stranding in the river Seine, causing serious damage to hull, disturbing engine foundation and boiler seating. For damage to hull see Ship Surveyor's report.

(Engines) Crank shaft lifted, intermediate shafting and propeller shaft removed, all pipes to side of hull, boiler, & bilges removed, foundation holding down bolts taken out, gratings removed, engines lifted clear of ship's seating, packing drawn & new fitted, fore end of engine brought down (3/8") three eighths of an inch, to make centres true with stern post and to compensate for lifting of ship's bottom. Main steam pipe, blow-off and scum pipe, fore hold bilge suction, fore hold ballast tank filling pipe & cock, ash cock & pipe water service, three engine room ^{bilge} suction pipes, repaired and made good. Three new foundation holding down bolts fitted also four on the thrust bearing. New lignum vitae bush fitted in stern tube, intermediate shafting re-adjusted in bearing. Crank shaft re-fitted into bearings, air, circulating, feed & bilge pump valves examined, surface condenser examined & tested. New rings fitted to donkey pump bucket. Spiggot on main discharge valve chest lengthened to pass thro' doubling plate. New discharge valve chest fitted with lengthened spiggots for two bilge pumps & one for donkey discharge.

(Boiler) All pipes, holding down stays, gratings &c boiler lifted clear of seating to repair ship's bottom. For particulars of which see Ship Surveyor's report.

(Repairs not-connected with damage) High pressure cylinder bored, new piston fitted to same. Slide valves adjusted, non-return valve fitted to donkey engine bilge suction. One fourth of boiler shell re-riveted at bottom. Two new rings fitted on lower mud holes doors, the whole of rivets in flange of steam dome renewed, part of fractured flange cut out & new fitted, dome stayed to shell of boiler.

The above repairs have been efficiently carried out and all connections made good, and at this date found engines & boiler in good working condition under the steam trial.

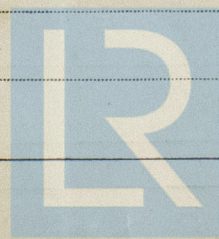
The Amount of Fee £2 : 2 : 0 received by me, Charles M. Jacobs
Certificate (if required) £ : 4/3/1878
(Travelling Expenses, if any, £)

Committee's Minute 8th March, 1878 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Report Recd. 7/3/78 4.8.8
It is submitted that she is eligible to remain as classed
Im 8/3/78
IRON477-0128

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