

Report of Survey for Repairs of Engines and Boilers.

No.

(Received at London Office, 24/3/81)

N. in Survey held at LondonDate, first Survey Sept. 27th Last Survey Feb. 26th 1881.245 on the Machinery of the S. S. "Viking"(Number of Visits 14)Age, Gross 2588Built at Glasgow.When built 1874Ditto, Net 1686Owners W. Ross & Co.Port belonging to Glasgow.Official Number of Cylinder 46 + 82Engines made by J. & J. ThomsonWhen made 1874Diameter of Stroke 45"Boilers made by DittoWhen made 1874Pressure of Steam 65 lbs.If Surveyed Afloat or in Dry Dock Afloat & Dry dock Classified

Years assigned. Character in Register Book.

Registered Horse Power 350100A1

Last Survey No.

Port

B. & M. S. 8. 79.

Particulars of Repairs and Examination On account of damage to Engines.

On examination found Low Pressure cylinder broken together with cover & Gland. Piston broken, both the columns supporting cylinder broken, the Port column & half of condenser is cast in one piece. One of the Air pump levers was found to be bent, and bolts broken in carriage. Low Pressure Connecting Rod broken & both bolts at bottom end of same together with the brasses. The After half of sole plate of Engine broken. The After half of crank shaft damaged by being struck by Connecting Rod. A flaw was found in Forward Crank pin rendering the Forward half of shaft unserviceable. The two bottom brasses of After crank shaft were found broken. Three sets of brasses & two links of Air Pump crosshead broken. The propeller shaft was found to be flawed & the Propeller carried away. Recommended that the Air Pump lever be straightened & refitted, the propeller shaft has new end welded on, & the above mentioned broken & unserviceable parts be renewed & the Engines properly adjusted. The tail shaft was renewed it being found impossible to weld it and the above recommendations carried out as regards the Engines. Air Circulating Pump examined found in good condition. High & Low Pressure slide valves found in good condition. High pressure cylinder & Valve face examined found in good condition. Vessel placed in Dry dock sea connections examined and

General Observations, Opinion, and Recommendation:— The Engines & Boilers of this vessel being now in good & safe working condition are eligible in my opinion to be marked in the Register Book with B & M. S. 2. 81 provided that the boilers are again examined in 12 months according to Society's Rules

Entry or Registering Fee ... £ 1 : 10

Survey Fee ... £ 3 : 3 1/2

Certificate (if required) ... £ : : 31. 8. 1881

(Travelling Expenses, if any, £)

Committee's Minute

Assigned

Friday, March, 25th. 1881.

B & M. S. 2, 81 subject to

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

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40203. Jan.

found in good condition. A new tail shaft and a new four bladed built propeller has been fitted & the stern bush lined up with fresh lignum vitae. Stern tube drawn & band shrunk on to make a proper fit in Stern Post which was bored out. Boilers examined a few rivets renewed in shell plates and a few seams caulked. 3 new stays fitted in Steam chests & boilers retubed. Safety valves examined, it was found that these valves could not be lifted off the seats recommended that they should be fitted to lift off by the casing gear which has been done. Boilers tested with hydraulic pressure to 110 lbs. per sq. in. which proved satisfactory.

It is submitted that this vessel is eligible
to have d.p. 81 and B.M.S. 2. 81
recorded subject to the Boilers
being again examined in
12 months according to the

Rules

M. 23/3/81



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