

Report of Survey for Repairs of Engines and Boilers.

No. Mirfield 28264 Recd 20.8.80.
 No. in Reg. Book. 1164 Survey held at London Date, first Survey 20th Dec^r Last Survey Dec^r 20th 1879

on the S.S. Mirfield Master
 Built at Greenock When built 1871

Tons 1171 Owners Lt. Crawhall Port belonging to London Classified 100 A1
067 Last Survey 28263 11/77
 YEARS. CHARACTER IN REGISTER BOOK.

Diameter of Cylinder 23" x 50 1/2" Engines made at Greenock When made 1871
 Length of Stroke 30"
 Pressure of Steam 65 lb
 Registered Horse Power 120 By whom made Greenock Foundry Co.

Particulars of Repairs and Examination of this Vessel's Machinery in order to report on its condition. On examination found only the following parts opened out for inspection. High and Low pressure Cylinder covers lifted.

High pressure piston examined. Gudgeon ring lifted and found satisfactory. Slide Valve drawn and examined found in good condition the top exhaust bar on cylinder face slightly corroded. Crank shaft top frame lifted. shaft partly examined but could not get it turned round in place. Air pump found satisfactory. the Chamber Bucket. Head and Foot Valve gratings are made of Cast Iron. Surface Condenser examined from bottom door only. Circulating pump found satisfactory. The Main Feed Check Valves on boiler are Cast Iron found them thin in places.

Main Motion opened out and examined. found the back ends of furnaces cracked and appear to have been heating badly. and the back plate of combustion chamber of ^{port} ~~star~~ boiler cracked and bulged and the top row of stays corroded. The tubes are much corroded and very thin some of which appear to have been recently removed. The Motion throughout are in a very rusty condition and corrosion has been going on very rapidly among the tubes.

To enable this Vessel to remain as claimed in the Register Book the following repairs to her machinery are required. viz Both pistons to be overhauled and springs adjusted. High pressure Cylinder face to be trued up. Crank shaft to be turned round in place and examined. Air Circulating. Feed and Midge pumps with all their connections to be overhauled. Surface Condenser to be tested by hydraulic pressure.

Main Feed Check Valves on boiler to take off for further examination. The top plate of all furnaces to be removed. and back plate of combustion chamber to be repaired where bulged. and some of top row of stays removed. All the bad and corroded tubes to be removed. the spring safety valves to be adjusted and tested under steam. Propeller tail and shaft and all sea cocks with their outside fastenings on ships bottom to be examined and repaired as may be required. when in the graving dock.

The Amount of Fee ... £ : : received by me, }
 Certificate (if required) ... £ : : 187 }
 (Travelling Expenses, if any, £)

Committee's Minute Tuesday, August 24th. 1880.
J. M. Giger A. Stoddart
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.