

Report of Survey for Repairs of Engines and Boilers.

No. 1104 on the S.S. Minerva Date, first Survey July 17th Last Survey July 21st 1879

Built at Newcastle When built 1862 Owners Southwold Co Port belonging to Master

Tons 427 676 Diameter of Cylinder 25 1/4 Length of Stroke 30 Pressure of Steam 75 Registered Horse Power 140

Engines Comp made at Newcastle By whom made Palmer Co When made 1870 Character in Register Book 95A Classed Lloyds M.C. 7.77 YEAR N B 1877

Particulars of Repairs and Examination. High pressure piston & cylinder examined and found good. Low pressure piston put in lathe and it and the pin and packing rings trued up, piston replaced and fitted with a new nut on piston rod. Crank shaft examined and slight flaw found in forward crank pin, this has been marked at the ends to see if it extends. Tail shaft drawn in and examined and after liners found loose and cone of shaft much corroded, a new shaft with new liners has been fitted, new brass bush fitted at after end of stern tube. After bracket on stern post taken off, propeller refitted. All sea connections reground in. Air circulating and bilge pumps overhauled, feed pumps, feed check valves, stop & safety valves overhauled.

Monkey Boiler examined and found clean and in good order.

Main Boiler examined with the exception that the tubes required re-expanding at back end & a little caulking at bottoms. They were found in good order. The tubes have been drawn back and beaded over at back ends & bottoms caulked where required. The machinery & boilers are now in good order and in my opinion render the vessel eligible to have a new machinery certificate granted and Lloyds M.C. 7.79 recorded.

added 12/9/79

The Amount of Fee ... 28/7/79 3 : 3 : 0 received by me, Certificate (if required) ... 16 Aug 1879

Committee's Minute