

# Report of Survey for Repairs of Engines and Boilers.

(No 5. 9. 79)

No. in Book. Survey held at London Date, first Survey Aug 22<sup>nd</sup> Last Survey Sept 2<sup>nd</sup> 1879  
 5 on the Screw Steamer "Ryhope" Master  
 Port at Sunderland When built 1860  
 as 475 Owners J. Hurwick & Son Port belonging to London Classified  
698 Years assigned. Character in Register Book. A.1

Diameter of Cylinder 38 New Cylinders to  
 Length of Stroke 30 Engines made at London When made 1842  
 Pressure of Steam 25 lbs. CH By whom made Vict Oks Engls NB 1842  
 Registered Horse Power 90

Particulars of Repairs and Examination Vessel placed on Pontoon and propeller and sea connections examined, Cylinders and pistons examined and overhauled, Air circulating and feed pumps overhauled, Crank shaft examined, a flaw (slight) seen in each of the 2<sup>nd</sup> and 3<sup>rd</sup> journals, marked at the ends to see if they extend. another flaw seen in the after pin extending for about 9 inches circumferentially, this has been marked for extension and a bolt 3 1/2 inches diameter fitted through the crank pin.

Main Boilers examined. 3 new longitudinal stays fitted in the starboard boiler, and a new angle iron riveted on back plate to secure them. The back plate of this boiler in way of top row of screw stays lined with 1/4 plate inside and out and six screw stays fitted through the plates, with nuts inside the combustion chamber & outside the boiler. The circular shell of the boilers in way of uptake drilled and found thin, and fitted in the thin parts with a doubling plate. The back side plates of combustion chambers had previously been partly lined with doubling plates below the bridges, where they had not been lined, and were now found thin they have been doubled, also a patch fitted on side of one furnace, and a few screw stays in bottom of chambers renewed.

Superheater examined, part of the superheater has lately been renewed, a thin place found in one of the original plates, and lined, holes drilled in other places and found from 5/16 to 3/8 thick, (originally 7/16 with 35 lbs pressure).

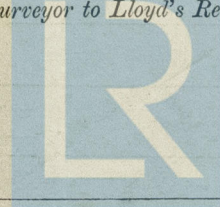
The boilers have now been put in safe working condition the machinery is also in good condition and in my opinion renders the vessel eligible to retain her class and to have the notification B & M.S. 8. 79 recorded in the Register Book, but the condition of the boilers & crank shaft renders it desirable that they should be again seen in six months from this date.

Amount of Fee ... £ 2 : 2 : 0 received by me,  
 Certificate (if required) ... £ : : 30 Sept 1879  
 Selling Expenses, if any, £

James J. Milnor  
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute 12<sup>th</sup> September, 1879.

JBW



Lloyd's Register  
 Foundation

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