

# REPORT ON BOILERS.

No. 5901  
THUR. 29 JUL 1909

Received at London Office  
MIDDLESBROUGH-ON-TEES.

Date of writing Report 19 When handed in at Local Office 28<sup>th</sup> July 1909 Port of MIDDLESBROUGH-ON-TEES.

No. in Survey held at Stockton-on-Tees Date, First Survey 5<sup>th</sup> July Last Survey 27<sup>th</sup> July 1909

Reg. Book. 17 on the S S Laverock (Number of Visits 14) Gross Tons S.S. No. 222 Net

Master Built at Troon By whom built James Ailsa M.B. Co When built 1909

Boilers made at Stockton By whom made James Riley Bros Lim (No. 4038) When made 1909

Owners General Steam Navigation Co Port belonging to London

VERTICAL DONKEY BOILER— No. one Description Vertical Manufacturers of steel J. Spencer & Sons

Made at Stockton By whom made James Riley Bros Lim When made 1909 Where fixed Main Deck Working pressure 80 lbs

Tested by hydraulic pressure to 160 Date of test 27.7.09 No. of Certificate 4297 Fire grate area 28 1/4 Description of safety valves Direct Spring

No. of safety valves 2 Area of each 5.940 Pressure to which they are adjusted 85 lbs If fitted with easing gear yes If steam from main boilers can enter the donkey boiler No Dia. of donkey boiler 7'-0" Length 14'-6" Material of shell plates steel Thickness 7/8" Range of tensile strength 28-32 Descrip. of riveting long. seams St. Riv Lap Dia. of rivet holes 1 1/8" Whether punched or drilled punched Pitch of rivets 3 1/4"

Lap of plating 4 3/4" Per centage of strength of joint Rivets 82.0 Working pressure of shell by rules 86 lbs Thickness of shell crown plates 7/8" Plates 71.07

Radius of do. flat No. of Stays to do. 6 Dia. of stays 2 5/8" Diameter of furnace Top 4'-5" Bottom 6'-1" Length of furnace 6'-0"

Thickness of furnace plates 5/8" Description of joint Lap Single Working pressure of furnace by rules 91 lbs Thickness of furnace crown plates 5/8" Radius of do. Dishd 30" Rad Stayed by 6 stays Diameter of uptake 15" Thickness of uptake plates 1/2"

Thickness of water tubes 3/8"

The foregoing is a correct description,  
RILEY BROS. (BOILERMAKERS) LIMITED. Manufacturer.

A. Lund SECRETARY.

Dates of Survey while building

During progress of work in shops - - 1909 June 5-9-14-18-21-24-28 July 15-17-21-23-26-27

During erection on board vessel - - -

Total No. of visits 14

Is the approved plan of boiler forwarded herewith yes

## GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This boiler has been built under Special Survey in accordance with the approved plan, the Secretary's letter E-18.5.09, and in general conformity with the Rules. The materials and workmanship are sound and good, and on completion the boiler was tested by hydraulic pressure with satisfactory results.

Survey Fee ... £ 2-2-0

Travelling Expenses (if any) £ :

When applied for, Monthly apc.

When received, 28/8/1909.

Advised from London

Wm Morrison  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

GLASGOW 5.OCT.1909

Assigned See minute on

Gls. Rpt. No. 28153.

Award



Lloyd's Register  
Foundation  
W340.0021