

REPORT ON BOILERS.

No. 6462.

Received at London Office WED. 21 SEP 1910
MIDDLESBROUGH-ON-TEES.

Date of writing Report 19 When handed in at Local Office 20 Sept 1910 Port of MIDDLESBROUGH-ON-TEES.

No. in Survey held at Stockton-on-Tees Date, First Survey 4 July Last Survey 16 Sept 1910
Reg. Book. on the S.S. "Hickwood" S.S. N^o 266 (Number of Visits 12) (Gross 1674) (Net 1012)

Master Martin Built at Sunderland By whom built R. Thompson & Sons L^{td}. When built 1910
Boilers made at Stockton By whom made Messrs Riley Bros (No 4178) When made 1910
Owners Wm. Hance, Hurwick & Co. Port belonging to London

VERTICAL DONKEY BOILER— No. one Description Riley's Patent Manufacturers of steel J. Spencer & Sons
Made at Stockton By whom made Riley Bros L^{td}. When made 1910 Where fixed Stockton Working pressure 100
tested by hydraulic pressure to 200 Date of test 16.9.10 No. of Certificate 4497 Fire grate area 29 Description of safety valves direct spring
No. of safety valves 2 Area of each 4.91 Pressure to which they are adjusted 100 If fitted with easing gear yes If steam from main boilers can enter the donkey boiler no Dia. of donkey boiler 7'-0" Length 15'-0" Material of shell plates steel Thickness $\frac{1}{2}$ " Range of tensile strength 28-32 Descrip. of riveting long. seams 2 Riv lap Dia. of rivet holes $\frac{15}{16}$ " Whether punched or drilled punched Pitch of rivets $3\frac{1}{4}$
Lap of plating $4\frac{3}{4}$ Per centage of strength of joint Rivets 72.3 Plates 71.07 Working pressure of shell by rules 104 lb Thickness of shell crown plates $\frac{1}{2}$ "
Radius of do. Hemph. No. of Stays to do. 2 Dia. of stays $\frac{1}{2}$ " plates Diameter of furnace Top 5'-1" Bottom 6'-2" Length of furnace 1'-9"
Thickness of furnace plates $\frac{3}{16}$ Description of joint Single Riv lap Working pressure of furnace by rules 109 lb Thickness of furnace crown plates $\frac{5}{8}$ " Radius of do. 3'-0" Stayed by none Diameter of uptake 15" x 23" Thickness of uptake plates $\frac{3}{16}$ "
Thickness of main tubes = 26" x $\frac{1}{2}$ "; Tube plates $\frac{1}{8}$ "; Pitch tubes $\left\{ \begin{array}{l} 4\frac{1}{2} \text{ Radial} \\ 4\frac{3}{4} \text{ Circumf} \end{array} \right.$ The foregoing is a correct description.
alternate tubes outer row stays 3 1/4 x 3/8"
" " middle " " 3 1/4 x 5/16"

FOR RILEY BROS. (BOILERMAKERS) LIMITED, Manufacturer.

A. Ford
SECRETARY,

Dates of Survey while building { During progress of work in shops -- } 1910 July 4-8-11-15-20 Aug 23-26-30 Sept 2-8-14-16
{ During erection on board vessel --- } Dec 7-16-20
Total No. of visits 12 15

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, is of good material and workmanship and on completion was tested by hydraulic pressure with satisfactory results

Secured in place, mounted, & tested under steam

Survey Fee £ 2-2-0 When applied for Monthly etc.
Travelling Expenses (if any) £ : : When received, 19

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

Committee's Minute

FRI 13 JAN 1911

Assigned

