

REPORT ON BOILERS.

No. 8169

Received at London Office

THU. OCT. 30. 1913

of writing Report 29.10.13

When handed in at Local Office 29.10.13

1913

Port of Middlesbrough

WED. APR. 15. 1914

in Survey held at

Stockton-on-Tees

Date, First Survey 8th Aug.Last Survey 24th Oct.

191

Book.

2 Sup the

Twin S.S. "Elbury"

(Number of Visits 14)

(S.S. No 189)

Tons

Gross

Net

er

Built at Newcastle

By whom built Tyne Iron & B. Co Ltd

When built

nes made at

By whom made

When made

rs made at

Stockton

By whom made Messrs Riley Bros Ltd (No. 4500)

When made 1913

stered Horse Power

Owners

Port belonging to

LITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY.~~ Manufacturers of Steel John Spencer & Sons

er for record (S) Total Heating Surface of Boilers 1375 sq ft Is forced draft fitted no No. and Description of

ers One single ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 24.10.13

of Certificate 5178 Can each boiler be worked separately Area of fire grate in each boiler 40 1/2 sq ft No. and Description of

y valves to each boiler 2 direct spring Area of each valve 4.43 sq in Pressure to which they are adjusted 180 lbs.

they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Least distance between boilers or uptakes and bunkers or woodwork on deck Mean dia. of boilers 11'-6" Length 12'-8"

Material of shell plates steel Thickness 15/16" Range of tensile strength 29-33 Are the shell plates welded or flanged no

rip. of riveting: cir. seams 2-R-lap long. seams 2-B-3 Riv Diameter of rivet holes in long. seams 15/16" Pitch of rivets 6 1/4"

of plates or width of butt straps 13 3/4" x 15/16" Per centages of strength of longitudinal joint rivets 87.6 Working pressure of shell by

182 Size of manhole in shell 19" x 15" Size of compensating ring 7" x 1" No. and Description of Furnaces in each

or 2 plain Material steel Outside diameter 42" Length of plain part 3 1/2 x 3 1/2 x 5/8 866 angles top 87 3/4 Thickness of plates crown 13/16

ription of longitudinal joint Weld No. of strengthening rings one Working pressure of furnace by the rules 180 Combustion chamber

Material steel Thickness: Sides 2 1/32 Back 5/8 Top 5/8 Bottom 13/16 Pitch of stays to ditto: Sides 9 x 8 1/2 Back 8 x 9"

8 1/4 x 8 1/2 stays are fitted with nuts or riveted heads nuts Working pressure by rules 186 Material of stays steel Diameter at

least part 1.73 Area supported by each stay 76.5 Working pressure by rules 181 End plates in steam space: Material steel Thickness 3/32

of stays 16 1/2 x 15 How are stays secured nuts & 6 x 1/2 washers Working pressure by rules 180 Material of stays steel Diameter at smallest part 4.57

supported by each stay 243 Working pressure by rules 196 Material of Front plates at bottom steel Thickness 3/32 Material of

er back plate steel Thickness 3/32 Greatest pitch of stays 14 1/2 x 9 Working pressure of plate by rules 234 Diameter of tubes 3 1/2"

of tubes 4 3/4 x 4 3/4 Material of tube plates steel Thickness: Front 3/32 Back 13/16 Mean pitch of stays 10 1/8 Pitch across wide

spaces 15" Working pressures by rules 181 Girders to Chamber tops: Material steel Depth and thickness of

er at centre 9 3/4 x 1 3/4 Length as per rule 39" Distance apart 8 1/4" Number and pitch of Stays in each 3 @ 8 1/2"

Working pressure by rules 181 Superheater or Steam chest: how connected to boiler none Can the superheater be shut off and the boiler worked

rately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

fitted with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

The foregoing is a correct description,

FOR RILEY BROS. (BOILERMAKERS) LTD. Manufacturer.

Is the approved plan of boiler forwarded herewith yes

Total No. of visits 14

See Newcastle Report No. 65870

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

Survey Fee ... £ 4-12-4 When applied for, 191

Travelling Expenses (if any) £ : : When received, 191

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

Committee's Minute FRI. JUL. 24. 1914

Signed see minute on file No. 65870 FRI. OCT. 16. 1914

FRI. OCT. 16. 1914 TUE. SEP. 23. 1915 FRI. 11. JAN. 1916

FRI. 16. JUN. 1916 FRI. 22. DEC. 1916 TUE. NOV. 25. 1919

FRI. OCT. 5. 1917 WED. 11. APR. 1917