

REPORT ON BOILERS.

No. 9914.

Received at London Office

WED. 24 OCT. 1917

When handed in at Local Office 27.10.17 191 Port of Middlesbrough
held at Stockton-on-Tees Date, First Survey 22nd May/17 Last Survey 11th Oct. 1917
(Number of Visits) (S.S. No 231) Tons } Gross
Net
Built at Sudbrook By whom built Messrs Walker & Son Lim. No 231 When built
Hewbury By whom made Messrs Planty & Son Lim. No 2364 When made
Stockton By whom made Messrs Riley Bros Lim. (No 5019) When made 1917
Power Owners Port belonging to

ULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Messrs J. Spencer & Sons

(5) Total Heating Surface of Boilers 1496 $\frac{1}{2}$ Is forced draft fitted No. and Description of
one single ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 11.10.17

5812 Can each boiler be worked separately Area of fire grate in each boiler 48.9 $\frac{1}{2}$ No. and Description of
each boiler Area of each valve Pressure to which they are adjusted

th easing gear In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

between boilers or uptakes and bunkers or woodwork Inside Mean dia. of boilers 12'-6" Length 10'-6"

plates Steel Thickness 1 $\frac{1}{4}$ " Range of tensile strength 28-32 Are the shell plates welded or flanged no

ng: cir. seams 2 R. lap long. seams 2 B-3 Riv Diameter of rivet holes in long. seams 1 $\frac{1}{2}$ " Pitch of rivets 7 $\frac{1}{2}$ "

width of butt straps 15 $\frac{3}{4}$ " x 1 $\frac{1}{2}$ " Per centages of strength of longitudinal joint rivets 92.0 Working pressure of shell by
plate 85.09

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

Material Steel Outside diameter 37" Length of plain part top 79 $\frac{1}{2}$ " Thickness of plates crown 3 $\frac{1}{4}$ "
bottom 3 $\frac{1}{4}$ "

itudinal joint Weld No. of strengthening rings none Working pressure of furnace by the rules 196 Combustion chamber

Steel Thickness: Sides 4 $\frac{1}{2}$ " Back 2 $\frac{1}{2}$ " Top 4 $\frac{1}{2}$ " Bottom 4 $\frac{1}{2}$ " Pitch of stays to ditto: Sides 9" x 8" Back 9" x 8 $\frac{3}{4}$ "

stays are fitted with nuts or riveted heads nuts Working pressure by rules 185 Material of stays steel Diameter at

73 Area supported by each stay 72 Working pressure by rules 192 End plates in steam space: Material Steel Thickness 1 $\frac{1}{2}$ "

7" x 16" How are stays secured nuts + Working pressure by rules 184 Material of stays steel Diameter at smallest part 5.05"

by each stay 289 Working pressure by rules 182 Material of Front plates at bottom steel Thickness 1" Material of

Steel Thickness 7 $\frac{1}{8}$ " Greatest pitch of stays 14 $\frac{1}{2}$ " x 8 $\frac{3}{4}$ " Working pressure of plate by rules 185 Diameter of tubes 3 $\frac{1}{4}$ "

5" x 4 $\frac{1}{4}$ " Material of tube plates steel Thickness: Front 1" Back 7 $\frac{1}{8}$ " Mean pitch of stays 10 $\frac{1}{8}$ " Pitch across wide

14" Working pressures by rules 182 Girders to Chamber tops: Material Steel Depth and thickness of

8" x 1 $\frac{1}{2}$ " Length as per rule 27 Distance apart 11" Number and pitch of Stays in each 20 7 $\frac{1}{2}$ "

by rules 180 Superheater or Steam chest: how connected to boiler none Can the superheater be shut off and the boiler worked

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

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

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

REQUEST The foregoing is a correct description,
30. ATTACHED. RILEY BROS. BOILERMAKERS LIMITED. Manufacturer.

During progress of 1917 May 22. June 5. July 6. 18. Aug 3. 9. 14 Is the approved plan of boiler forwarded herewith yes
work in shops - - 30. Sep 4. 13. Oct 11.

During erection on Total No. of visits 11.
board vessel - - -

AL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under

Survey: is of good material and workmanship and on completion was tested

hydraulic pressure also examined under steam and all found satisfactory

Fee ... 5-0-0 When applied for, Monthly 1/1-0-0 When received, 23/10/17.

for steam lift 1-1-0

for expenses on survey 1-1-0

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