

# REPORT ON BOILERS.

WED. FEB. 18, 1920

No. 323

MON. JUL. 14, 1919

Received at London Office

Report 12/7/1919 When handed in at Local Office 12/7/1919 Port of **SHEFFIELD**  
 Survey held at **NEWARK** Date, First Survey 24 June Last Survey 2 July 1919  
 the **MULTITUBULAR BOILER No. 3972 S.G.M.S.** (Number of Visits 5) Tons } Gross  
 Net  
 Built at By whom built When built  
 By whom made When made  
 at **NEWARK** By whom made **THE FARAR BOILER WORKS** When made  
 Horse Power Owners Port belonging to

**TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.**—Manufacturers of Steel **Parkgate Iron Works Ltd.**

Record Total Heating Surface of Boilers **325 sq. ft.** Is forced draft fitted **No** No. and Description of

**1, Cylindrical** Working Pressure **150 lb.** Tested by hydraulic pressure to **260 lb.** Date of test **2/7/19**

Capacity **415** Can each boiler be worked separately **Yes** Area of fire grate in each boiler **42.4 sq. ft.** No. and Description of

to each boiler **2 firing loaded** Area of each valve **3.1416 sq. ft.** Pressure to which they are adjusted **135 lb.**

and with easing gear **Yes** In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler **No**

Distance between boilers or uptakes and bunkers or woodwork **1-6** Mean dia. of boilers **41 1/2"** Length **7'2"**

Shell plates **Steel** Thickness **3/8"** Range of tensile strength **28,000** Are the shell plates welded or flanged **Flanged**

Riveting: cir. seams **Single** long. seams **Lap, tight** Diameter of rivet holes in long. seams **1 1/2"** Pitch of rivets **3 1/2"**

Size or width of butt straps **6 3/4"** Per centages of strength of longitudinal joint rivets **76.5** Working pressure of shell by

**150 lb.** Size of manhole in shell **15" x 12"** Size of compensating ring **6 1/2"** No. and Description of Furnaces in each

**1 plain** Material **Steel** Outside diameter **2'10"** Length of plain part **5'8"** Thickness of plates **3/8"**

of longitudinal joint **Butt strap, single lap, strengthening rings from** Working pressure of furnace by the rules **140 lb.** Combustion chamber

Material **Steel** Thickness: Sides **3/8"** Back **3/8"** Top **3/8"** Bottom **3/8"** Pitch of stays to ditto: Sides **7 1/2"** Back **7 1/2"**

If stays are fitted with nuts or riveted heads **No** Working pressure by rules **170** Material of stays **Steel** Area at

**1 1/2"** Area supported by each stay **57.5 sq. in.** Working pressure by rules **140** End plates in steam space: Material **Steel** Thickness **1/2"**

How are stays secured **By nuts and washers** Working pressure by rules **135** Material of stays **Steel** Area at smallest part **3.5**

ted by each stay **166.5** Working pressure by rules **170** Material of Front plates at bottom **Steel** Thickness **3/8"** Material of

plate **Steel** Thickness **1/2"** Greatest pitch of stays **9"** Working pressure of plate by rules **170 lb.** Diameter of tubes **3"**

Material of tube plates **Steel** Thickness: Front **1/2"** Back **1/2"** Mean pitch of stays **2 3/4"** Pitch across wide

**1'10"** Working pressures by rules **145 lb.** Girders to Chamber tops: Material **Steel** Depth and thickness of

stre **5" x 1 1/2"** Length as per rule **20'** Distance apart **5'8 1/2"** Number and pitch of Stays in each **one, 8"**

Pressure by rules **150 lb.** Steam dome: description of joint to shell **No** % of strength of joint **No**

Thickness of shell plates **No** Material **No** Description of longitudinal joint **No** Diam. of rivet holes **No**

Working pressure of shell by rules **No** Crown plates **No** Thickness **No** How stayed **No**

ATER. Type **No** Date of Approval of Plan **No** Tested by Hydraulic Pressure to **No**

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler **No**

Safety Valve **No** Pressure to which each is adjusted **No** Is Easing Gear fitted **No**

The foregoing is a correct description  
**J. Farar Boilerworks Ltd.** Manufacturer.  
**A. Kitchin & Co.**

ring progress of **24/3-10/4-21/5-12/6-2/7/19** Is the approved plan of boiler forwarded herewith **Yes**

ring erection on **Yes** Total No. of visits **5**

ard vessel - - -

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

**ial survey the material tested in accordance with the Rules**

**the workmanship is good**

**This Boiler has been built to the order of Messrs W. H. Warren & Co.**

**has been recently fitted in the vessel. The safety valves adjusted under**

**W. H. Warren & Co. 5 1/2" & 7 1/2"**

When applied for **12/7/1919**

When received **28/19**

**See Hull file No 31635**

**See Hull file No 31635**

**See Hull file No 31635**

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