

REPORT ON BOILERS.

No. 2681

Received at London Office

Port of **Newcastle on Tyne**
 Date, First Survey **3rd Sept. 1919** Last Survey **10th Nov 1919**
 No. in Survey held at **Hebburn on Tyne**
 Reg. Book. on the **Boiler for S.S. "Peadar"** (Number of Visits **8**)
 Master **Ep Yarmouth** Built at **Ep Yarmouth** By whom built **Crabtree & Co. No. 194** When built **1920**
 Engines made at **Great Yarmouth** By whom made **Crabtree & Co. No. 573** When made **1920**
 Boilers made at **Hebburn** By whom made **Palmer's Coy Ltd No. 966** When made **1919**
 Registered Horse Power **R. & J. Park. Ltd** Owners **R. & J. Park. Ltd** Port belonging to **London**

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel **J. Spencer & Sons Ltd**
 Letter for record **S** Total Heating Surface of Boilers **1053 sq ft** Is forced draft fitted **No** No. and Description of Boilers **one S.E. cyl multitubular** Working Pressure **130 lb** Tested by hydraulic pressure to **260 lb** Date of test **27 Nov 1919**
 No. of Certificate **9331** Can each boiler be worked separately Area of fire grate in each boiler **34 sq ft** No. and Description of safety valves to each boiler **Two Direct Spring** Area of each valve Pressure to which they are adjusted **135 lbs.**
 Are they fitted with easing gear **Yes** In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler
 Smallest distance between boilers or uptakes and bunkers or woodwork **1' 6"** Mean dia. of boilers **11' 4 1/2"** Length **10' 0"**
 Material of shell plates **Steel** Thickness **3/4"** Range of tensile strength **28/32 tons** Are the shell plates welded or flanged **No**
 Descrip. of riveting: cir. seams **D.R. Lap** long. seams **3.R. D.B. Step** Diameter of rivet holes in long. seams **15/16"** Pitch of rivets **5"**
 Dip of plates or width of butt straps **15"** Per centages of strength of longitudinal joint **82.170** Working pressure of shell by rules **131 lb** Size of manhole in shell **16" x 12"** Size of compensating ring **14" x 3/4"** No. and Description of Furnaces in each boiler **two plain** Material **Steel** Outside diameter **42"** Length of plain part **6' 0"** Thickness of plates **21/32"** Description of longitudinal joint **weld** No. of strengthening rings **none** Working pressure of furnace by the rules **132 lb** Combustion chamber plates: Material **Steel** Thickness: Sides **7/8"** Back **7/8"** Top **7/8"** Bottom **15/16"** Pitch of stays to ditto: Sides **10 x 8 3/4"** Back **10 x 10"** Top **9 1/2 x 9"** If stays are fitted with nuts or riveted heads **nuts** Working pressure by rules **135 lb** Material of stays **Steel** Area at smallest part **2.03 sq ft** Area supported by each stay **105 sq ft** Working pressure by rules **133 lb** End plates in steam space: Material **Steel** Thickness **29/32"** Pitch of stays **19 x 15 1/4"** How are stays secured **D.R. & W** Working pressure by rules **131 lb** Material of stays **Steel** Area at smallest part **4.1 sq ft** Area supported by each stay **290 sq ft** Working pressure by rules **147 lb** Material of Front plates at bottom **Steel** Thickness **29/32"** Material of lower back plate **Steel** Thickness **29/32"** Greatest pitch of stays **13" x 10"** Working pressure of plate by rules **214 lb** Diameter of tubes **3 1/2"** Pitch of tubes **4 3/4" x 4 3/4"** Material of tube plates **Steel** Thickness: Front **29/32"** Back **3/4"** Mean pitch of stays **12"** Pitch across wide water spaces **14"** Working pressures by rules **150 lb** Girders to Chamber tops: Material **Steel** Depth and thickness of girder at centre **8" x 13/8"** Length as per rule **29"** Distance apart **9"** Number and pitch of Stays in each **two - 9 1/2"** Working pressure by rules **184 lb** Steam dome: description of joint to shell **None** % of strength of joint

SUPERHEATER. Type _____ Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____
 Date of Test _____ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____
 Diameter of Safety Valve _____ Pressure to which each is adjusted _____ Is Easing Gear fitted _____
 The foregoing is a correct description,
J. Cameron Boiler Shop Dept. Manufacturer.

Dates During progress of work in shops - - **1919 Sept 3, 10, 12, 16, 23, Nov 10** Is the approved plan of boiler forwarded herewith **Yes**
 while building (During erection on board vessel - - -) Total No. of visits **6**

GENERAL REMARKS (State quality of workmanship, opinions as to class, etc.)
 The Boilers built under Special Survey, the material and workmanship found good and efficient. The boiler was tested under 260 lb hydraulic pressure (ex mounting) and found satisfactory - working pressure 130 lb - Certificate number 9331 -

Survey Fee £ **5 : 10** When applied for **16 JAN 1920**
 Travelling Expenses (if any) £ _____ When received **26/3/1920**
A.G. Farmer & **Leonard Challinor** Engineer Surveyor to Lloyd's Register of Shipping.
 Committee's Minute **FRI. 19. MAR. 1920** **TUE. AUG. 24 1920**
 Assigned **See Lon 82838** **FRI. 10 JAN 1930**

