

## REPORT ON BOILERS.

No. 41536

Received at London Office WED. 10 JAN. 1919

pt. 5a.

191 When handed in at Local Office 191 Port of **NEWCASTLE-ON-TYNE**  
 Date, First Survey **29 May 1918** Last Survey **28 Aug 1918**  
 (Number of Visits **16**) Gross  
 No. in Survey held at **Newcastle on Tyne** Date, First Survey **29 May 1918** Last Survey **28 Aug 1918**  
 Reg. Book. **Row Hawthorn Leslie & Co. Ltd.** Net  
 on the **Screw Steamer** When built  
 Built at By whom built  
 By whom made **Swan Hunter, Wigham, Richardson & Co. Ltd.** When made  
 By whom made **Row Hawthorn Leslie & Co. Ltd.** When made **1918**  
 Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel **Spencer & Sons Ltd.**

Letter for record **S** Total Heating Surface of Boilers **7668 sq. ft.** Is forced draft fitted **Yes** No. and Description of  
 Boilers **3 Cylinders, 1 Main, 2 Single** Working Pressure **180 lbs** Tested by hydraulic pressure to **360 lbs** Date of test **15/8/18**  
 No. of Certificate **9133** Can each boiler be worked separately **Yes** Area of fire grate in each boiler **63.3 sq. ft.** No. and Description of  
 Safety valves to each boiler **2 Direct Spring loaded** Area of each valve **9.62 sq. in.** Pressure to which they are adjusted  
 Are they fitted with easing gear 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 **Mean dia. of boilers 15' 6" Length 11' 6"**  
 Material of shell plates **Steel** Thickness **1 1/4"** Range of tensile strength **28/32 tons** Are the shell plates welded or flanged **No**  
 Descrip. of riveting: cir. seams **Lap Double** long. seams **Butt Strap** Diameter of rivet holes in long. seams **1 7/8"** Pitch of rivets **9 1/8"** 4 3/8"  
 Width of butt straps **19 1/2"** Per centages of strength of longitudinal joint **87.5** Working pressure of shell by  
 Rules **182 lbs** Size of manhole in shell **16" x 12"** Size of compensating ring **Plate flanged** No. and Description of Furnaces in each  
 Boiler **2 Deighton's** Material **Steel** Outside diameter **50 3/4"** Length of plain part **4' 6 1/4"** Thickness of plates **19"** 32"  
 Description of longitudinal joint **Weld** No. of strengthening rings **None** Working pressure of furnace by the rules **188 lbs** Combustion chamber  
 Plates: Material **Steel** Thickness: Sides **3/32"** Back **1/16"** Top **3/32"** Bottom **3/32"** Pitch of stays to ditto: Sides **9 1/4" x 10 1/2"** Back **10 1/4" x 8 1/4"**  
 Top **10 1/2" x 9 1/4"** If stays are fitted with nuts or riveted heads **Nuts** Working pressure by rules **183 lbs** Material of stays **Steel** Area  
 Smallest part **2 3/4"** Area supported by each stay **98 sq. in.** Working pressure by rules **219 lbs** End plates in steam space: Material **Steel** Thickness **1 1/2"**  
 Pitch of stays **2 1/2" x 2 1/2"** How are stays secured **Double nuts & washers** Working pressure by rules **184 lbs** Material of stays **Steel** Diameter at smallest part **8 1/8"**  
 Area supported by each stay **460 sq. in.** Working pressure by rules **184 lbs** Material of Front plates at bottom **Steel** Thickness **3 1/2"** Material of  
 Lower back plate **Steel** Thickness **3/8"** Greatest pitch of stays **14 5/8"** Working pressure of plate by rules **183 lbs** Diameter of tubes **2 3/4"**  
 Pitch of tubes **4" x 3 1/8"** Material of tube plates **Steel** Thickness: Front **3/32"** Back **3/4"** Mean pitch of stays **9 1/8"** Pitch across wide  
 Water spaces **13 5/8"** Working pressures by rules **181 lbs** 209 lbs Girders to Chamber tops: Material **Steel** Depth and thickness of  
 Girder at centre **10" x 1 1/2"** Length as per rule **26 3/8"** Distance apart **10 5/8"** Number and pitch of Stays in each **3: 9 1/4"**  
 Working pressure by rules **184 lbs** Superheater or Steam chest: how connected to boiler **None** Can the superheater be shut off and the boiler work  
 Separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet  
 Holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness  
 If stiffened 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 R. &amp; W. HAWTHORN, LESLIE &amp; CO. Manufacturer.

Dates of Survey **1918** During progress of work in shops **May 29, Jun 3, 7, 12, 13, 15, July 8, 15, 25, 31** Is the approved plan of boiler forwarded herewith **Yes** Standard plan.  
 while building **Aug 8, 15, 16, 21, 27, 28** Total No. of visits **16**

GENERAL REMARKS (State quality of workmanship, opinions as to class, &amp;c.)

These boilers were built under special survey and the workmanship is good. On completion they were tested as required by the Rules and found tight and sound. It is not known at present to what ship these boilers will be fitted.

Survey Fee ... £ 20.3.12 When applied for, 1918  
 Travelling Expenses (if any) £ : : When received, 1919

Wm. Austin & W. Lindale.  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

TUE 15 APR. 1919

Committee's Minute

Assigned

Wm. Austin & W. Lindale.  
 71746



© 2020

Lloyd's Register Foundation