

## REPORT ON BOILERS.

No. 39275.  
WED. 29 OCT. 1919

Received at London Office

Date of writing Report 191 When handed in at Local Office 191 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 3/9/19 Last Survey 17/1/19 191  
Reg. Book. on the Boilers No 543 for SS LONDONIER (Number of Visits 37) Gross 5216 Tons Net 3171

Master Built at Glasgow By whom built Lloyds Royal Belge (No 1034) When built 1919  
Engines made at Glasgow By whom made W & W Henderson & Co Ltd (No 45) When made 1919  
Boilers made at Glasgow By whom made Fairfield Shipbuilding Co Ltd When made 1919  
Registered Horse Power Owners Port belonging to Antwerp

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel W. Beardmore & Co Ltd

(Letter for record S) Total Heating Surface of Boilers 7668  $\text{ft}^2$  Is forced draft fitted Yes No. and Description of Boilers Three single ended multitubular Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 18-6-19  
No. of Certificate 14768 Can each boiler be worked separately Yes Area of fire grate in each boiler 63.3  $\text{ft}^2$  No. and Description of safety valves to each boiler 2 spring loaded Area of each valve 9.62  $\text{in}^2$  Pressure to which they are adjusted 185  $\text{lb}$   
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 1-9  $\text{in}$  INT Mean dia. of boilers 15-6  $\text{in}$  Length 11-6  $\text{ft}$   
Material of shell plates S Thickness 1 1/4  $\text{in}$  Range of tensile strength 28/32 Are the shell plates welded or flanged No  
Descrip. of riveting: cir. seams L.D.R. long. seams T.R. & butt straps Diameter of rivet holes in long. seams 15/16 Pitch of rivets 9 1/8  $\text{in}$   
Lap of plates or width of butt straps 19 1/2  $\text{in}$  Per centages of strength of longitudinal joint rivets 88.3 plate 85.6 Working pressure of shell by rules 182 Size of manhole in END 16 x 12  $\text{in}$  Size of compensating ring plate flanged in No. and Description of Furnaces in each boiler  
boiler 3 Corrugated Material S Outside diameter 50 3/16  $\text{in}$  Length of plain part top bottom Thickness of plates crown 19 1/2  $\text{in}$  bottom 19 3/32  $\text{in}$   
Description of longitudinal joint weld No. of strengthening rings none Working pressure of furnace by the rules 187 Combustion chamber plates: Material S Thickness: Sides 23/32  $\text{in}$  Back 1 1/16  $\text{in}$  Top 23/32  $\text{in}$  Bottom 23/32  $\text{in}$  Pitch of stays to ditto: Sides 10 5/8 x 9 1/4  $\text{in}$  Back 10 1/4 x 8 3/4  $\text{in}$   
Top 10 5/8 x 9 1/4  $\text{in}$  If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 180 Material of stays S area Diameter at smallest part 2.39 Area supported by each stay 98.4 Working pressure by rules 187 End plates in steam space: Material S Thickness 1 1/32  $\text{in}$   
Pitch of stays 21 3/4 x 20 1/2  $\text{in}$  How are stays secured S. Nuts Working pressure by rules 181 Material of stays S area Diameter at smallest part 8.29  
Area supported by each stay 446 Working pressure by rules 193 Material of Front plates at bottom S Thickness 7/8  $\text{in}$  Material of Lower back plate S Thickness 2 1/32  $\text{in}$  Greatest pitch of stays 13 5/8  $\text{in}$  Working pressure of plate by rules 187 Diameter of tubes 2 3/4  $\text{in}$   
Pitch of tubes 4 x 3 7/8  $\text{in}$  Material of tube plates S Thickness: Front 3/32  $\text{in}$  Back 3/4  $\text{in}$  Mean pitch of stays 9 13/16  $\text{in}$  Pitch across wide water spaces 13 5/8  $\text{in}$  Working pressures by rules 182 Girders to Chamber tops: Material S Depth and thickness of girder at centre 10 x 13 1/4  $\text{in}$  Length as per rule 35 9/16  $\text{ft}$  Distance apart 10 5/8  $\text{in}$  Number and pitch of Stays in each 3 @ 9 1/4  $\text{in}$   
Working pressure by rules 187 Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked separately Yes 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

For THE FAIRFIELD SHIPBUILDING

AND ENGINEERING CO., LIMITED.

The foregoing is a correct description,

Attest: Ally Cleghorn

Manufacturer.

Dates of Survey During progress of 19.2.19 21.2.19 22.2.19 24.2.19 27.2.19 28.2.19 1.3.19 3.3.19 10.3.19 15.3.19 20.3.19 26.3.19 30.3.19 3.4.19 10.4.19 15.4.19 20.4.19 26.4.19 30.4.19 5.5.19 10.5.19 15.5.19 20.5.19 26.5.19 30.5.19 5.6.19 10.6.19 15.6.19 20.6.19 26.6.19 30.6.19 5.7.19 10.7.19 15.7.19 20.7.19 26.7.19 30.7.19 5.8.19 10.8.19 15.8.19 20.8.19 26.8.19 30.8.19 5.9.19 10.9.19 15.9.19 20.9.19 26.9.19 30.9.19 5.10.19 10.10.19 15.10.19 20.10.19 26.10.19 30.10.19 5.11.19 10.11.19 15.11.19 20.11.19 26.11.19 30.11.19 5.12.19 10.12.19 15.12.19 20.12.19 26.12.19 30.12.19 5.1.20 10.1.20 15.1.20 20.1.20 26.1.20 30.1.20 5.2.20 10.2.20 15.2.20 20.2.20 26.2.20 30.2.20 5.3.20 10.3.20 15.3.20 20.3.20 26.3.20 30.3.20 5.4.20 10.4.20 15.4.20 20.4.20 26.4.20 30.4.20 5.5.20 10.5.20 15.5.20 20.5.20 26.5.20 30.5.20 5.6.20 10.6.20 15.6.20 20.6.20 26.6.20 30.6.20 5.7.20 10.7.20 15.7.20 20.7.20 26.7.20 30.7.20 5.8.20 10.8.20 15.8.20 20.8.20 26.8.20 30.8.20 5.9.20 10.9.20 15.9.20 20.9.20 26.9.20 30.9.20 5.10.20 10.10.20 15.10.20 20.10.20 26.10.20 30.10.20 5.11.20 10.11.20 15.11.20 20.11.20 26.11.20 30.11.20 5.12.20 10.12.20 15.12.20 20.12.20 26.12.20 30.12.20 5.1.21 10.1.21 15.1.21 20.1.21 26.1.21 30.1.21 5.2.21 10.2.21 15.2.21 20.2.21 26.2.21 30.2.21 5.3.21 10.3.21 15.3.21 20.3.21 26.3.21 30.3.21 5.4.21 10.4.21 15.4.21 20.4.21 26.4.21 30.4.21 5.5.21 10.5.21 15.5.21 20.5.21 26.5.21 30.5.21 5.6.21 10.6.21 15.6.21 20.6.21 26.6.21 30.6.21 5.7.21 10.7.21 15.7.21 20.7.21 26.7.21 30.7.21 5.8.21 10.8.21 15.8.21 20.8.21 26.8.21 30.8.21 5.9.21 10.9.21 15.9.21 20.9.21 26.9.21 30.9.21 5.10.21 10.10.21 15.10.21 20.10.21 26.10.21 30.10.21 5.11.21 10.11.21 15.11.21 20.11.21 26.11.21 30.11.21 5.12.21 10.12.21 15.12.21 20.12.21 26.12.21 30.12.21 5.1.22 10.1.22 15.1.22 20.1.22 26.1.22 30.1.22 5.2.22 10.2.22 15.2.22 20.2.22 26.2.22 30.2.22 5.3.22 10.3.22 15.3.22 20.3.22 26.3.22 30.3.22 5.4.22 10.4.22 15.4.22 20.4.22 26.4.22 30.4.22 5.5.22 10.5.22 15.5.22 20.5.22 26.5.22 30.5.22 5.6.22 10.6.22 15.6.22 20.6.22 26.6.22 30.6.22 5.7.22 10.7.22 15.7.22 20.7.22 26.7.22 30.7.22 5.8.22 10.8.22 15.8.22 20.8.22 26.8.22 30.8.22 5.9.22 10.9.22 15.9.22 20.9.22 26.9.22 30.9.22 5.10.22 10.10.22 15.10.22 20.10.22 26.10.22 30.10.22 5.11.22 10.11.22 15.11.22 20.11.22 26.11.22 30.11.22 5.12.22 10.12.22 15.12.22 20.12.22 26.12.22 30.12.22 5.1.23 10.1.23 15.1.23 20.1.23 26.1.23 30.1.23 5.2.23 10.2.23 15.2.23 20.2.23 26.2.23 30.2.23 5.3.23 10.3.23 15.3.23 20.3.23 26.3.23 30.3.23 5.4.23 10.4.23 15.4.23 20.4.23 26.4.23 30.4.23 5.5.23 10.5.23 15.5.23 20.5.23 26.5.23 30.5.23 5.6.23 10.6.23 15.6.23 20.6.23 26.6.23 30.6.23 5.7.23 10.7.23 15.7.23 20.7.23 26.7.23 30.7.23 5.8.23 10.8.23 15.8.23 20.8.23 26.8.23 30.8.23 5.9.23 10.9.23 15.9.23 20.9.23 26.9.23 30.9.23 5.10.23 10.10.23 15.10.23 20.10.23 26.10.23 30.10.23 5.11.23 10.11.23 15.11.23 20.11.23 26.11.23 30.11.23 5.12.23 10.12.23 15.12.23 20.12.23 26.12.23 30.12.23 5.1.24 10.1.24 15.1.24 20.1.24 26.1.24 30.1.24 5.2.24 10.2.24 15.2.24 20.2.24 26.2.24 30.2.24 5.3.24 10.3.24 15.3.24 20.3.24 26.3.24 30.3.24 5.4.24 10.4.24 15.4.24 20.4.24 26.4.24 30.4.24 5.5.24 10.5.24 15.5.24 20.5.24 26.5.24 30.5.24 5.6.24 10.6.24 15.6.24 20.6.24 26.6.24 30.6.24 5.7.24 10.7.24 15.7.24 20.7.24 26.7.24 30.7.24 5.8.24 10.8.24 15.8.24 20.8.24 26.8.24 30.8.24 5.9.24 10.9.24 15.9.24 20.9.24 26.9.24 30.9.24 5.10.24 10.10.24 15.10.24 20.10.24 26.10.24 30.10.24 5.11.24 10.11.24 15.11.24 20.11.24 26.11.24 30.11.24 5.12.24 10.12.24 15.12.24 20.12.24 26.12.24 30.12.24 5.1.25 10.1.25 15.1.25 20.1.25 26.1.25 30.1.25 5.2.25 10.2.25 15.2.25 20.2.25 26.2.25 30.2.25 5.3.25 10.3.25 15.3.25 20.3.25 26.3.25 30.3.25 5.4.25 10.4.25 15.4.25 20.4.25 26.4.25 30.4.25 5.5.25 10.5.25 15.5.25 20.5.25 26.5.25 30.5.25 5.6.25 10.6.25 15.6.25 20.6.25 26.6.25 30.6.25 5.7.25 10.7.25 15.7.25 20.7.25 26.7.25 30.7.25 5.8.25 10.8.25 15.8.25 20.8.25 26.8.25 30.8.25 5.9.25 10.9.25 15.9.25 20.9.25 26.9.25 30.9.25 5.10.25 10.10.25 15.10.25 20.10.25 26.10.25 30.10.25 5.11.25 10.11.25 15.11.25 20.11.25 26.11.25 30.11.25 5.12.25 10.12.25 15.12.25 20.12.25 26.12.25 30.12.25 5.1.26 10.1.26 15.1.26 20.1.26 26.1.26 30.1.26 5.2.26 10.2.26 15.2.26 20.2.26 26.2.26 30.2.26 5.3.26 10.3.26 15.3.26 20.3.26 26.3.26 30.3.26 5.4.26 10.4.26 15.4.26 20.4.26 26.4.26 30.4.26 5.5.26 10.5.26 15.5.26 20.5.26 26.5.26 30.5.26 5.6.26 10.6.26 15.6.26 20.6.26 26.6.26 30.6.26 5.7.26 10.7.26 15.7.26 20.7.26 26.7.26 30.7.26 5.8.26 10.8.26 15.8.26 20.8.26 26.8.26 30.8.26 5.9.26 10.9.26 15.9.26 20.9.26 26.9.26 30.9.26 5.10.26 10.10.26 15.10.26 20.10.26 26.10.26 30.10.26 5.11.26 10.11.26 15.11.26 20.11.26 26.11.26 30.11.26 5.12.26 10.12.26 15.12.26 20.12.26 26.12.26 30.12.26 5.1.27 10.1.27 15.1.27 20.1.27 26.1.27 30.1.27 5.2.27 10.2.27 15.2.27 20.2.27 26.2.27 30.2.27 5.3.27 10.3.27 15.3.27 20.3.27 26.3.27 30.3.27 5.4.27 10.4.27 15.4.27 20.4.27 26.4.27 30.4.27 5.5.27 10.5.27 15.5.27 20.5.27 26.5.27 30.5.27 5.6.27 10.6.27 15.6.27 20.6.27 26.6.27 30.6.27 5.7.27 10.7.27 15.7.27 20.7.27 26.7.27 30.7.27 5.8.27 10.8.27 15.8.27 20.8.27 26.8.27 30.8.27 5.9.27 10.9.27 15.9.27 20.9.27 26.9.27 30.9.27 5.10.27 10.10.27 15.10.27 20.10.27 26.10.27 30.10.27 5.11.27 10.11.27 15.11.27 20.11.27 26.11.27 30.11.27 5.12.27 10.12.27 15.12.27 20.12.27 26.12.27 30.12.27 5.1.28 10.1.28 15.1.28 20.1.28 26.1.28 30.1.28 5.2.28 10.2.28 15.2.28 20.2.28 26.2.28 30.2.28 5.3.28 10.3.28 15.3.28 20.3.28 26.3.28 30.3.28 5.4.28 10.4.28 15.4.28 20.4.28 26.4.28 30.4.28 5.5.28 10.5.28 15.5.28 20.5.28 26.5.28 30.5.28 5.6.28 10.6.28 15.6.28 20.6.28 26.6.28 30.6.28 5.7.28 10.7.28 15.7.28 20.7.28 26.7.28 30.7.28 5.8.28 10.8.28 15.8.28 20.8.28 26.8.28 30.8.28 5.9.28 10.9.28 15.9.28 20.9.28 26.9.28 30.9.28 5.10.28 10.10.28 15.10.28 20.10.28 26.10.28 30.10.28 5.11.28 10.11.28 15.11.28 20.11.28 26.11.28 30.11.28 5.12.28 10.12.28 15.12.28 20.12.28 26.12.28 30.12.28 5.1.29 10.1.29 15.1.29 20.1.29 26.1.29 30.1.29 5.2.29 10.2.29 15.2.29 20.2.29 26.2.29 30.2.29 5.3.29 10.3.29 15.3.29 20.3.29 26.3.29 30.3.29 5.4.29 10.4.29 15.4.29 20.4.29 26.4.29 30.4.29 5.5.29 10.5.29 15.5.29