

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) Tons } Gross 5216
 Net 3171

Master Built at Glasgow By whom built Lloyd Royal Belge (No 1039) 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 SB & 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 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 15-6-19
 No. of Certificate 14768 Can each boiler be worked separately Yes Area of fire grate in each boiler 63.3 No. and Description of safety valves to each boiler 2 Spring loaded Area of each valve 9.62 Pressure to which they are adjusted 185 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 ^{INT} Mean dia. of boilers 15-6 Length 11-6
 Material of shell plates S Thickness 1/4 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 9/8
 Lap of plates or width of butt straps 19 1/2 Per centages of strength of longitudinal joint rivets 88.3 Working pressure of shell by rules 182 Size of manhole in END 16 x 12 Size of compensating ring plate flanged in No. and Description of Furnaces in each boiler 3 Corrugated Material S Outside diameter 50 3/16 Length of plain part top Thickness of plates 19/32
 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 Back 1/16 Top 23/32 Bottom 23/32 Pitch of stays to ditto: Sides 10 5/8 x 9 1/4 Back 10 1/4 x 8 3/4
 Top 10 5/8 x 9 1/4 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
 Pitch of stays 2 3/4 x 2 1/2 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 Material of Lower back plate S Thickness 2 1/32 Greatest pitch of stays 13 5/8 Working pressure of plate by rules 187 Diameter of tubes 2 3/4
 Pitch of tubes 4 x 3 7/8 Material of tube plates S Thickness: Front 3/32 Back 3/4 Mean pitch of stays 9 13/16 Pitch across wide water spaces 13 5/8 Working pressures by rules 182 Girders to Chamber tops: Material S Depth and thickness of girder at centre 10 x 1 3/4 Length as per rule 35 9/16 Distance apart 10 5/8 Number and pitch of Stays in each 3 @ 9 1/4
 Working pressure by rules 187 Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked 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

For THE FAIRFIELD SHIPBUILDING AND ENGINEERING CO., LIMITED. The foregoing is a correct description, Ally Cleghorn Manufacturer.

Dates of Survey } During progress of work in shops - } 1919 } 1918 } Is the approved plan of boiler forwarded herewith No
 while building } During erection on board vessel - } 1919 } 1918 }
 Total No. of visits 37

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built under special survey and in accordance with the Rules, the materials and workmanship are sound and good.

Boilers now satisfactorily fitted to the vessel.
Easthope
17.10.19

Survey Fee £ 28 : 19 : 6 When applied for, 28.10.1919
 Travelling Expenses (if any) £ : : When received, 1/10/1919

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 28 OCT 1919
 Assigned See accompanying machinery report.



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