

REPORT ON BOILERS.

No. 37096

Received at London Office

Date of writing Report 21 Aug 1917 When handed in at Local Office Glasgow Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 20 May 1915 Last Survey 13 Aug 1917
 Reg. Book. Marine Boilers designated Nos 1564/65. In Ardrossan Dry Dock No 270 (Number of Visits 38) Gross Tons 138 Net Tons 138
 Master By whom built Ardrossan By whom built Ardrossan When built 1917
 Engines made at Glasgow By whom made Ardrossan When made 1918
 Boilers made at Glasgow By whom made Lindsay Burnet & Co When made 1917
 Registered Horse Power Owners Mead Son & Russey Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Steel Co. Scotland & Lancashire

(Letter for record S) Total Heating Surface of Boilers 2524 sq ft Is forced draft fitted no No. and Description of Boilers Two Single Ended Working Pressure 180 lbs Tested by hydraulic pressure to 360 Date of test 13-8-17

No. of Certificate 13878 Can each boiler be worked separately yes Area of fire grate in each boiler 45 sq ft No. and Description of safety valves to each boiler 2 Spring loaded Area of each valve 4 sq in Pressure to which they are adjusted 180 lbs

Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler yes

Smallest distance between boilers or uptakes and bunkers or woodwork 4 ft 6 in Mean dia. of boilers 12 ft 6 in Length 10 ft 6 in

Material of shell plates Steel Thickness 1 3/4 in Range of tensile strength 28/32 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams DR Lap long. seams Up Riv Bulbs Diameter of rivet holes in long. seams 1 1/8 in Pitch of rivets 8 in

Lap of plates or width of butt straps 1 1/2 in Per centages of strength of longitudinal joint 88 Working pressure of shell by rules 183 lbs Size of manhole in shell 16 in x 12 in Size of compensating ring 7 in x 1 1/2 in No. and Description of Furnaces in each boiler Two Horizontal Material Steel Outside diameter 4 ft 4 in Length of plain part top 7 ft 6 in bottom 7 ft 6 in Thickness of plates crown 7/32 in bottom 7/32 in

Description of longitudinal joint bevel No. of strengthening rings none Working pressure of furnace by the rules 180 lbs Combustion chamber plates: Material Steel Thickness: Sides 25/32 in Back 2 1/2 in Top 25/32 in Bottom 25/32 in Pitch of stays to ditto: Sides 9 in x 8 7/8 in Back 8 7/8 in x 8 7/8 in

Top Girders If stays are fitted with nuts or riveted heads no Working pressure by rules 190 lbs Material of stays Steel Area at smallest part 203 sq in Area supported by each stay 76 sq in Working pressure by rules 23 lbs End plates in steam space: Material Steel Thickness 1 1/8 in

Pitch of stays 18 in x 17 in How are stays secured Double nut Working pressure by rules 135 lbs Material of stays Steel Area at smallest part 5.78 sq in

Area supported by each stay 306 sq in Working pressure by rules 195 lbs Material of Front plates at bottom Steel Thickness 3/16 in Material of Lower back plate Steel Thickness 3/4 in Greatest pitch of stays 14 in x 8 7/8 in Working pressure of plate by rules 208 lbs Diameter of tubes 3 1/2 in

Pitch of tubes 4 3/4 in Material of tube plates Steel Thickness: Front 13/16 in Back 13/16 in Mean pitch of stays 10 1/2 in Pitch across wide water spaces 1 1/2 in Working pressures by rules 216 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 in x 3/4 in x 2 in Length as per rule 30 1/2 in Distance apart 9 in Number and pitch of Stays in each Two at 9 in

Working pressure by rules 188 lbs Steam dome: description of joint to shell no % of strength of joint no

Diameter no Thickness of shell plates no Material no Description of longitudinal joint no Diam. of rivet holes no

Pitch of rivets no Working pressure of shell by rules no Crown plates no Thickness no How stayed no

SUPERHEATER. Type no Date of Approval of Plan no Tested by Hydraulic Pressure to no

Date of Test no Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler no

Diameter of Safety Valve no Pressure to which each is adjusted no Is Easing Gear fitted no

Survey request form No. 1691 attached

The foregoing is a correct description, Lindsay Burnet & Co Manufacturer.

Dates of Survey 1915 May 20 June 24 July 18 Aug 29 16 23 31 Sept 6 13 20 30 Is the approved plan of boiler forwarded herewith yes

while building During erection on board vessel Dec 15 1916 Jan 20 1917 Feb 21 28 Dec 11 1917 Jan 8 1918 Total No. of visits 38

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built under special survey in accordance with approved plan. The workmanship and material is of good quality & the boilers are in my opinion suitable for a working pressure of 180 lbs per sq. in. The boilers are being sent to Ardrossan.

These Boilers have now been satisfactorily fitted on board at Ardrossan 11/3/18

Survey Fee £ 8 : 8 : - When applied for, 21-8-1917

Travelling Expenses (if any) £ : : - When received, 22-8-1917

Committee's Minute GLASGOW 28 AUG 1917

Assigned TRANSMIT TO LONDON

See Glasgow Report No. 37572

Peter W. Chigor, Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

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