

Rpt. 5a.

# REPORT ON BOILERS.

No. 34442.

Received at London Office WED. OCT. -7. 1914

Date of writing Report 25-9-1914, When handed in at Local Office 101 Port of Glasgow.

No. in Survey held at Date, First Survey 25/6/14 Last Survey 25-9-1914.

Reg. Book. on the Single ended Marine boiler for shipment (N° 1529). (Number of Visits 13) Tons } Gross }  
Net }

Master Built at By whom built When built

Engines made at By whom made When made

Boilers made at Glasgow. By whom made Messrs Lindsay Burnet & Co. Ltd. When made 1914.

Registered Horse Power Owners Port belonging to

**MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.**—Manufacturers of Steel Steel Co of Scotland Ltd.

Letter for record S. Total Heating Surface of Boilers 1500 sq ft. Is forced draft fitted  No. and Description of Boilers One single ended. Working Pressure 130 Tested by hydraulic pressure to 260. Date of test 25-9-14.

No. of Certificate 12882. Can each boiler be worked separately  Area of fire grate in each boiler 46. No. and Description of safety valves to each boiler  Area of each valve  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 12'-3 1/8" Length 10'-6"

Material of shell plates S. Thickness 1 3/16" Range of tensile strength 28/32. Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams d l. long. seams DRDBS. Diameter of rivet holes in long. seams 1" Pitch of rivets 5 1/4"

Cap of plates or width of butt straps 10 1/2" Per centages of strength of longitudinal joint rivets 82.25 Working pressure of shell by plate 81.9.

Rules 132. Size of manhole in shell 16 x 12. Size of compensating rings Nil No. and Description of Furnaces in each boiler 2. Material S. Outside diameter 4'-0" Length of plain part  Thickness of plates crown 7/16 bottom

Description of longitudinal joint Weld. No. of strengthening rings Nil Working pressure of furnace by the rules 131 Combustion-chamber plates: Material S Thickness: Sides 9/16 Back 9/16 Top 9/16 Bottom 9/16 Pitch of stays to ditto: Sides 8" x 10" Back 8 3/4" x 9 3/4"

Top 8" x 8 1/2" If stays are fitted with nuts or riveted heads Nuts. Working pressure by rules 130. Material of stays S. Diameter at smallest part 1 1/4" Area supported by each stay 85.0" Working pressure by rules 135 End plates in steam space: Material S Thickness 2 3/8"

Pitch of stays 16" x 14" How are stays secured Drivets Working pressure by rules 135 Material of stays S Diameter at smallest part 3.43"

Area supported by each stay 242" Working pressure by rules 131. Material of Front plates at bottom S Thickness 3/4" Material of lower back plate S Thickness 5/8" Greatest pitch of stays 8 3/4" x 9 3/4". Working pressure of plate by rules 212. Diameter of tubes 3 1/4" OD

Pitch of tubes 4 3/8" x 4 3/8". Material of tube plates S Thickness: Front 3/4" Back 1/6" Mean pitch of stays 8 3/4" x 8 3/4" Pitch across wide water spaces 9 3/4" x 4". Working pressures by rules 182. Girders to Chamber tops: Material S Depth and thickness of girder at centre 6 1/2" x 1 1/4". Length as per rule 2'-2 1/4" Distance apart 8'2" Number and pitch of Stays in each 2-8"

Working pressure by rules 144 Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked separately

13 5" 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

Survey request form No. 7529 attached to Gls. Report 34421

The foregoing is a correct description, Lindsay Burnet & Co. Manufacturer. 9.10.14

Dates of Survey } During progress of } June 25 July 17-30 Aug. 5-11-18-25 Sept 1-11. Is the approved plan of boiler forwarded herewith Yes, with Gls. Rpt. 34421  
while building } work in shops - - } 15-23-25  
} During erection on }  
} board vessel - - }

Total No. of visits 13.

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

The workmanship and materials are good.  
The boiler has been built under special survey.

Survey Fee ... £ 5 : 0 : 0 When applied for, 29/9/1914

Travelling Expenses (if any) £ : : : When received, 29/9/1914

Committee's Minute **GLASGOW** - 6 OCT. 1914

Assigned TRANSMIT TO LONDON

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping. TUE. JAN. 26. 1915

Lloyd's Register Foundation