

REPORT ON BOILERS.

No. 36605

Received at London Office: ED. JAN. 10. 1917

Date of writing Report 1917 When handed in at Local Office Glasgow Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 23/5/16 Last Survey 29/12/1916

Reg. Book. Manue Boiler designated No 1613 (Number of Visits 25) Tons } Gross
 on the Manue Boiler designated No 1613 By William Poutson } Net

Master Lith Built at Lith By whom built J. Linn & Co. When built 1917

Engines made at Lith By whom made J. Linn & Co. When made 1917

Boilers made at Glasgow By whom made Lindsay Burnet & Co. When made 1916

Registered Horse Power _____ Owners _____ Port belonging to _____

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. - Manufacturers of Steel Glasgow 1860 David Colville & Sons

(Letter for record S) Total Heating Surface of Boilers 1850 sq. ft. Is forced draft fitted No. and Description of Boilers One Single Ended. Working Pressure 130 lbs Tested by hydraulic pressure to 260 lbs Date of test 29/12/16

No. of Certificate 13652 Can each boiler be worked separately no Area of fire grate in each boiler 665 sq. ft. 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 15'-9" Length 10'-6"

Material of shell plates Steel Thickness 1 1/2" Range of tensile strength 28/32 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams Double Lap long. seams Butt dip Riv Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 7/8"

lap of plates or width of butt straps 16 1/2" Per centages of strength of longitudinal joint rivets 92 Working pressure of shell by rules 143 lbs Size of manhole in shell 16" x 12" Size of compensating ring Laugel Saddle No. and Description of Furnaces in each boiler Three corrugated Material Steel Outside diameter 52 1/4" Length of plain part top Thickness of plates bottom 7/8"

Description of longitudinal joint reed No. of strengthening rings Working pressure of furnace by the rules 155 lbs Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 7/8" Pitch of stays to ditto: Sides 9 x 8 1/2" Back 9 x 8 1/2"

Top Inders If stays are fitted with nuts or riveted heads nuts Working pressure by rules 139 lbs Material of stays Steel Diameter at smallest part 1 1/2" Area supported by each stay 6 7/8 sq. in. Working pressure by rules 47 lbs End-plates in steam space: Material Steel Thickness 1 1/2"

Pitch of stays 19 x 22 How are stays secured at washers Working pressure by rules 134 lbs Material of stays Steel Diameter at smallest part 6-12 sq. in.

Area supported by each stay 4 1/8 sq. in. Working pressure by rules 145 lbs Material of Front plates at bottom Steel Thickness 7/8" Material of Lower back plate Steel Thickness 7/8" Greatest pitch of stays as per plan Working pressure of plate by rules 130 lbs Diameter of tubes 3 1/2"

Pitch of tubes 4 7/8 x 4 7/8 Material of tube plates Steel Thickness: Front 7/8" Back 3/4" Mean pitch of stays 12 1/16" Pitch across wide water spaces 14 1/2" Working pressures by rules 130 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 9" x 1 1/4" Length as per rule 33 1/4" Distance apart 9 1/2" Number and pitch of Stays in each 3 at 8"

Working pressure by rules 135 lbs 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

Survey request form No 1853 attached

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

Dates of Survey while building } During progress of work in shops - - } 1916 Aug. 23, June 29, July 12, 14, 24, Aug. 1, 11, 14, Sept. 4, 13, 26, 28 Is the approved plan of boiler forwarded herewith Yes.

building } During erection on board vessel - - } Oct. 3, 12, 19, 23, Nov. 1, 4, 13, 21, 24, 28, Dec. 1, 11, 18, 29 Total No. of visits 25

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey in accordance with the approved plan. The workmanship and material is of good quality, and the boiler in my opinion is suitable for the working pressure of 130 lbs per sq. in. The boiler is intended for vessel No 109, building by Messrs Flu Crau & Co Ltd, Lith.

Survey Fee £ 6 : 3 : } When applied for, 6/12/17 1917
 Travelling Expenses (if any) £ : : } When received, 9/1/17 1917

Robert W. Cheyn Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 9 - JAN. 1917
Assigned TRANSMIT TO LONDON.

WED. 11. APR. 1917
Lloyd's Register Foundation