

## REPORT ON BOILERS.

No. 44087

Date of writing Report 11<sup>th</sup> Oct 1924 When handed in at Local Office 20. 10 1924 Port of Glasgow.  
 No. in Survey held at Glasgow. Date, First Survey 10 - 7 - 1924 Last Survey 9 - 10 - 1924  
 Reg. Book. 53813 on the Main Boiler for S/S. 'STETTIN' (Number of Visits 1st) Gross 876  
 Master Built at Glasgow By whom built Bundy & Co. L. Tons 528  
 Engines made at Glasgow By whom made The Forth Shipbuilding & Engineering Co. (1921) Ltd When made 1924  
 Boiler made at Glasgow Owners (J. Currie & Co.) Port belonging to Leith  
 Registered Horse Power

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel The Steel Co. of Scotland L.

(Letter for record S) Total Heating Surface of Boiler 1644 Is forced draft fitted No  
 Boiler One Cyl. Main Single End Working Pressure 160 lb Tested by hydraulic pressure to 290 lb Date of test 9.10.24  
 No. of Certificate 16630 Can each boiler be worked separately No Area of fire grate in each boiler 51.4 No. and Description of  
 safety valves to each boiler 2 - spring loaded Area of each valve 5.99 Pressure to which they are adjusted 150 lbs  
 Are they fitted with easing gear No In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No  
 Smallest distance between boilers 12" and bunkers 12" diam. of boiler 13'-9" Length 10'-6"  
 Material of shell plates S Thickness 1 1/32" Range of tensile strength 25/32 T Are the shell plates welded or flanged No  
 Descrip. of riveting: cir. seams LD R long. seams DBS/TR Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 7 1/2"  
 width of butt straps 15 7/8" Per centages of strength of longitudinal joint 88 Working pressure of shell by  
 rules 164 lb Size of manhole 18 1/4 x 14 1/4 Size of compensating ring 33 x 29 1/4 No. and Description of Furnaces in each  
 boiler 3. Fox Material S Outside diameter 40 5/16" Length of plain part 15 1/2" Thickness of plates 15 1/32"  
 Description of longitudinal joint Weld No. of strengthening rings 5 Working pressure of furnace by the rules 164 lb Combustion chamber  
 plates: Material S Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 3/4" Pitch of stays to ditto: Sides 0 x 8" Back 8 1/2 x 8 1/2"  
 Top 10 x 8" If stays are fitted with nuts or riveted heads No Working pressure by rules 163 lb Material of stays S Area at  
 smallest part 1.73 Area supported by each stay 80.0 Working pressure by rules 188 lb End plates in steam space: Material S Thickness 1 1/16"  
 Pitch of stays 8 1/2 x 17 1/2" are stays secured D.N. Working pressure by rules 165 lb Material of stays S Area at smallest part 5.27  
 Area supported by each stay 315.0 Working pressure by rules 175 lb Material of front plates at bottom S Thickness 13/16" Material of  
 Lower back plate S Thickness 13/16" Greatest pitch of stays 4 1/2 x 7 1/4" Working pressure of plate by rules 198 lb Diameter of tubes 3 1/4"  
 Pitch of tubes 4 1/2" Material of tube plates S Thickness: Front 13/16" Back 25/32" Mean pitch of stays 13 1/2 x 9" Pitch across wide  
 water spaces 14" Working pressures by rules 162 lb Girders to Chamber tops: Material S Depth and thickness of  
 girder at centre 8 1/4 x 1 1/2" Length as per rule 31 5/8" Distance apart 10" Number and pitch of Stays in each 308  
 Working pressure by rules 165 lb Steam dome: description of joint to shell None % of strength of joint -  
 Diameter - Thickness of shell plates - Material - Description of longitudinal joint - Diam. of rivet holes -  
 Pitch of rivets - Working pressure of shell by rules - Crown plates - Thickness - How stayed -

SUPERHEATER. Type - Date of Approval of Plan - Tested by Hydraulic Pressure to -  
 Date of Test - Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler -  
 Diameter of Safety Valves - Pressure to which each is adjusted - Is Easing Gear fitted -

VERTICAL DONKEY BOILER—No. - Description - Manufacturers of steel -  
 Made at - By whom made - When made - Where fixed - Working pressure -  
 tested by hydraulic pressure to - Date of test - No. of Certificate - Fire grate area - Description of safety valves -  
 No. of safety valves - Area of each - Pressure to which they are adjusted - If fitted with easing gear - If steam from main boilers can  
 enter the donkey boiler - Dia. of donkey boiler - Length - Material of shell plates - Thickness - Range of tensile  
 strength - Descrip. of riveting long. seams - Diam. of rivet holes - Whether punched or drilled - Pitch of rivets -  
 Lap of plating - Per centage of strength of joint - Rivets - Working pressure of shell by rules - Thickness of shell crown plates -  
 Radius of do. - No. of Stays to do. - Dia. of stays - Diameter of furnace Top - Bottom - Length of furnace -  
 Thickness of furnace plates - Description of joint - Working pressure of furnace by rules - Thickness of furnace crown  
 plates - Radius of do. - Stayed by - Diameter of uptake - Thickness of uptake plates -

The foregoing is a correct description,

THE FORTH SHIPBUILDING & ENGINEERING CO. (1921) LTD.  
(LINDSAY BURNET'S BOILER WORKS)

Manufactured.

Dates of Survey while building - During progress of work in shops - 1924 July 10-31 Aug 7-13-18-21-25 Sep 3-6-15-22-30 Oct 13-9  
 Total No. of visits 1st

Is the approved plan of main boiler (forward) (reverse) -donkey -

Annual Survey Required

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

This boiler has been constructed under special survey in accordance with the Rules and approved plan. The workmanship and materials employed in its manufacture are sound and good.  
It will be fitted on board the vessel at Leith.  
This boiler has been securely fitted on board & found satisfactory.  
Safety valves adjusted under steam to the pressure stated below.  
See machinery report for record.

Adjusting washers  $\frac{P.}{\frac{1}{2}}$   $\frac{S.}{\frac{15}{32}}$   
at 150 lbs

Certificate (if required) to be sent to

The amount of Entry Fee .. £ : : / When applied for.  
Special .. £ 11 : 0 : 18/01/24.  
Donkey Boiler Fee .. £ : : :  
Travelling Expenses (if any) £ : : : 23/10/24

Committee's Minute

Assigned

GLASGOW 21/10/24  
TRANSMIT TO LONDON

W. Law & R. J. Easthope  
Engineer Surveyor to Lloyd's Register of Shipping.

JUES 25 NOV 1924



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