

REPORT ON BOILERS.

No. 44088.

Date of writing Report 11. Oct 1924 When handed in at Local Office 20. 10. 1924 Port of Glasgow

No. in Survey held at Glasgow

Date, First Survey 17th June Last Survey 9. 10. 1924

Reg. Book.

(Number of Visits 10.) Gross 876

83823 on the Donkey Boiler for S/S. STETTIN

Tons Net 528

Master

Built at Glasgow

By whom built Barclay Currie & Co.

When built 1864-11.

Engines made at

By whom made

When made

Boilers made at Glasgow.

By whom made The Firth Shipbuilding & Engineering Co. (1921) Ltd. When made 1924

Registered Horse Power

Owners J. Currie & Co.

Port belonging to Lark

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

(Letter for record)

Total Heating Surface of Boilers 360 sq. ft.

Is forced draft fitted No.

No. and Description of

Boilers One Cyl. built Single End Working Pressure 80 lb. Tested by hydraulic pressure to 160 lb. Date of test 9. 10. 24No. of Certificate 16631 Can each boiler be worked separately — Area of fire grate in each boiler 11.25 sq. ft. No. and Description ofsafety valves to each boiler 2 - spring loaded Area of each valve 2.4 sq. in. Pressure to which they are adjusted 80 lb.

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No

Smallest distance between boilers — plates and bunkers — woodwork 3'-6" Inf. Mean dia. of boiler 8'-0" Length 7'-3"

Material of shell plates S. Thickness 7/16 Range of tensile strength 28/32 T. Are the shell plates welded or flanged No.

Pitch of riveting: cir. seams 20 in. long, seams 20 3/4 / 20 3/4 Diameter of rivet holes in long, seams 1 1/16 Pitch of rivets 3 1/8

Pitch of plates or width of butt straps 7 1/8 Per centages of strength of longitudinal joint rivets 83.4 plate 78.3 Working pressure of shell by

rules 99 lb. Size of manhole in shell 15" x 11" Size of compensating ring Plate flange 2 1/2" No. and Description of Furnaces in each

No. 1. Plain Material S. Outside diameter 37" Length of plain part top 53 1/2 bottom 58 3/4 Thickness of plates crown 1/2 bottom 1/2

Description of longitudinal joint Weld No. of strengthening rings Working pressure of furnace by the rules 107 lb. Combustion chamber

plates: Material S Thickness: Sides 17/32 Back 17/32 Top 17/32 Bottom 17/32 Pitch of stays to ditto: Sides 9 1/2 / 7 1/2 Back 9 1/2 / 7 1/2

9 1/2 x 6 1/2 stays are fitted with nuts or riveted heads Nuts Working pressure by rules 107 lb. Material of stays S. Area atsmallest part 1 1/9 Area supported by each stay 90.15 Working pressure by rules 113 lb. End plates in steam space: Material S Thickness 1 1/16Pitch of stays 6 x 15 How are stays secured D.N. Working pressure by rules 105 lb. Material of stays S. Area at smallest part 2.03Area supported by each stay 224 sq. in. Working pressure by rules 80 lb. Material of Front plates at bottom S. Thickness 1 1/16 Material ofLower back plate S. Thickness 1 1/16 Greatest pitch of stays 12 x 9 1/2 Working pressure of plate by rules 161 lb. Diameter of tubes 2 1/4

Pitch of tubes 3 1/2 Material of tube plates S. Thickness: Front 1 1/16 Back 5/8 Mean pitch of stays 10 1/2 Pitch across wide

water spaces 13 1/4 Working pressures by rules 103 lb. Girders to Chamber tops: Material S. Depth and thickness of

girder at centre 5 x 1 1/4 Length as per rule 20 1/4 Distance apart 9 1/2 Number and pitch of Stays in each One

Working pressure by rules 101 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

Dia. 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

Thickness of water tubes

The foregoing is a correct description,

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

Manufacturer.

Dates of Survey while building
During progress of work in shops - - -
During erection on board vessel - - -
Total No. of visits.

1924 June 17 July 10 31 Aug 7 13 18 21 25 Sep 3 Oct 9

10

Is the approved plan of main boiler forwarded

donkey

Annual Survey Request



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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 plans. The workmanship and materials employed in its manufacture are sound and good.
It will be fitted on board the vessel at Louth.
This boiler has been securely fitted on board and found satisfactory.
Safety valves adjusted under steam to the pressure stated below.
All machinery report for record.

Adjusting weights
at 80 lbs

F.
9"
32

A"
1"
14

Certificate (if required) to be used in

The amount of Entry Fee .. £ : :
Special £ 4 : 4 : 4/10/24
Donkey Boiler Fee £ : :
Travelling Expenses (if any) £ : :
When applied for.
When received.

W. Lane & R. J. Easthope.
Engineers Surveyors to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 21 OCT 1924

TUES 25 NOV 1924

Assigned

TRANSMIT TO LONDON



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42-0102-24