

Mem R^d Stephenson & Co S.S. No 111- Bailey No 553

Rpt. 5.

REPORT ON BOILERS.

No. 52739

TUES. APR 23 1907

Port of Newcastle on Tyne

Received at London Office

No. in Survey held at Newcastle
Reg. Book.

Date, first Survey Jan 29 '07

Last Survey 10 April 1907

(Number of Visits 10)

95 on the Steel S.S. "Marina"

Gross 2853
Tons Net 1816

Master Built at Newcastle By whom built R^d Stephenson & Co When built 1907

Engines made at Sunderland By whom made Richardson Westgarth & Co when made 1907

Boilers made at Newcastle By whom made R^d Stephenson & Co when made 1907

Registered Horse Power Owners Nav Libera Trieste Port belonging to Trieste

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J Spencer & Son

(Letter for record R) Total Heating Surface of Boilers 730 $\frac{1}{2}$ Is forced draft fitted No No. and Description of

Boilers One Cyl Multi- Working Pressure 90 Tested by hydraulic pressure to 180 Date of test 4-3-07

No. of Certificate 7437 Can each boiler be worked separately ✓ Area of fire grate in each boiler 27 $\frac{1}{2}$ No. and Description of

safety valves to each boiler Two spring Area of each valve 4-9 Pressure to which they are adjusted 95

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 or uptakes and bunkers or woodwork 18 $\frac{1}{2}$ Mean dia. of boilers 9-6 Length 8-6

Material of shell plates S Thickness 19/32 Range of tensile strength 28/32 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams S lap long. seams S lap Diameter of rivet holes in long. seams 15/16 Pitch of rivets 3 $\frac{1}{16}$

Lap of plates or width of butt straps 6 $\frac{3}{4}$ Per centages of strength of longitudinal joint 80 Working pressure of shell by

rules 109 Size of manhole in shell 16 \times 12 Size of compensating ring 7 \times 19/32 No. and Description of Furnaces in each

boiler Two plain Material S Outside diameter 36 $\frac{1}{2}$ Length of plain part 63 Thickness of plates 1/2

Description of longitudinal joint d shap No. of strengthening rings ✓ Working pressure of furnace by the rules 105 Combustion chamber

plates: Material S Thickness: Sides 17/32 Back 17/32 Top 17/32 Bottom 5/8 Pitch of stays to ditto: Sides 8 $\frac{3}{4}$ Back 10 \times 9 $\frac{1}{4}$

Top 10 $\frac{1}{4}$ \times 9 If stays are fitted with nuts or riveted heads nut Working pressure by rules 91 Material of stays S Diameter at

smallest part 1-45 Area supported by each stay 92-5 Working pressure by rules 93 End plates in steam space: Material S Thickness 13/16

Pitch of stays 17 \times 17 How are stays secured by nut & washer Working pressure by rules 108 Material of stays S Diameter at smallest part 3-26

Area supported by each stay 289 Working pressure by rules 112 Material of Front plates at bottom S Thickness 13/16 Material of

Lower back plate S Thickness 13/16 Greatest pitch of stays as per plan Working pressure of plate by rules 90 Diameter of tubes 3 $\frac{1}{4}$

Pitch of tubes 4 $\frac{1}{2}$ \times 4 $\frac{1}{2}$ Material of tube plates S Thickness: Front 13/16 Back 1/16 Mean pitch of stays 11 $\frac{1}{4}$ Pitch across wide

water spaces 14 Working pressures by rules 120 Girders to Chamber tops: Material S Depth and thickness of

girder at centre 7 $\frac{1}{2}$ \times 1 $\frac{1}{4}$ Length as per rule 24 Distance apart 10 $\frac{1}{4}$ Number and pitch of Stays in each One 9

Working pressure by rules 125 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 ✓

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

For The foregoing is a correct description,
ROBERT STEPHENSON & CO., LIMITED,
Manufacturers.

Dates During progress of 1907 Jan 29 Feb 5 & 13 05 Mar 4 Apr 3 & 10

of Survey During erection on

while board vessel

building Total No. of visits 10

Is the approved plan of main boiler forwarded herewith ✓

donkey

Lloyd's Register
Foundation

002305-002319-0132

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

The material & workmanship is good.
The boiler has been built under special survey & has
been properly fitted.

Certificate (if required) to be sent to

The amount of Entry Fee...	£	:	:	When applied for.
Special	£	:	:	22 APR 1907
Donkey Boiler Fee	£	0	0	When received.
Travelling Expenses (if any) £	:	:	:	25/4/07

John H Heck

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

FRI. 26 APR 1907

Assigned

see minute on

Std Rpt to 23212



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