

Mem R<sup>s</sup> Stephenson & Co Boiler No 585

pt. 5.

# REPORT ON BOILERS.

No. 52896  
SAT. 8 JUN 1907

Port of Newcastle on Tyne Received at London Office

No. in Survey held at Newcastle Date, first Survey 25 Feb. 1907 Last Survey 6 May 1907  
 Reg. Book. Shel Se. Co. City of Hull (Number of Visits 10)  
 on the Shel Se. Co. City of Hull Tons { Gross 88 Net 14  
 Master Built at Selby By whom built Cochrane & Sons When built 1907  
 Engines made at Luton By whom made The Vauhall West Hydraulic Co. L<sup>td</sup> When made 1907  
 Boiler made at Newcastle By whom made R<sup>s</sup> Stephenson & Co. L<sup>td</sup> when made 1907  
 Registered Horse Power 35 Owners London & Peterhead S. F. Gold Port belonging to Peterhead

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

Letter for record S Total Heating Surface of Boilers 720 ft<sup>2</sup> Is forced draft fitted No No. and Description of  
 boilers One cyl<sup>r</sup> S Ind. Working Pressure 140 Tested by hydraulic pressure to 280 Date of test 6-5-07  
 No. of Certificate 7477 Can each boiler be worked separately ✓ Area of fire grate in each boiler 28 ft<sup>2</sup> No. and Description of  
 safety valves to each boiler Two Spring Area of each valve 3.14 sq" Pressure to which they are adjusted 140 lbs  
 Are they fitted with easing gear Yes 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 4" Mean dia. of boilers 9'-6" Length 9'-1 3/4"  
 Material of shell plates S Thickness 3/4 Range of tensile strength 28/32 Are the shell plates welded or flanged No  
 Descrip. of riveting: cir. seams d lap long. seams d stag Diameter of rivet holes in long. seams 1 Pitch of rivets 4  
~~Length~~ width of butt straps 10 Per centages of strength of longitudinal joint rivets 78 plate 75 Working pressure of shell by  
 rules 144 Size of manhole in shell 16 x 12 Size of compensating ring flanged No. and Description of Furnaces in each  
 boiler 2 Plain Material S Outside diameter 36 5/8 Length of plain part 68 Thickness of plates 19/32  
 Description of longitudinal joint weld No. of strengthening rings ✓ Working pressure of furnace by the rules 141 Combustion chamber  
 plates: Material S Thickness: Sides 9/16 Back 19/32 Top 9/16 Bottom 13/16 Pitch of stays to ditto: Sides 8 1/2 x 8 1/2 Back 9 x 8 1/2  
 Top 8 x 8 1/2 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 151 Material of stays S Diameter at  
 smallest part 1-45 Area supported by each stay 76.5 Working pressure by rules 151 End plates in steam space: Material S Thickness 7/8  
 Pitch of stays 16 x 17 1/2 How are stays secured d. & R<sup>s</sup> W Working pressure by rules 153 Material of stays S Diameter at smallest part 4-11  
 Area supported by each stay 281 Working pressure by rules 146 Material of Front plates at bottom S Thickness 7/8 Material of  
 Lower back plate S Thickness 7/8 Greatest pitch of stays as per plan Working pressure of plate by rules 140 Diameter of tubes 3 1/4  
 Pitch of tubes 4 1/2 Material of tube plates S Thickness: Front 7/8 Back 3/4 Mean pitch of stays 9 Pitch across wide  
 water spaces 13 1/2 Working pressures by rules 150 Girders to Chamber tops: Material S Depth and thickness of  
 girder at centre 7 x 13 3/8 Length as per rule 26 1/2 Distance apart 8 Number and pitch of Stays in each 2- 8 1/2  
 Working pressure by rules 174 Steam chest: how connected to boiler d. & R<sup>s</sup> Can the superheater be shut off and the boiler worked  
 separately ✓ Diameter 30 Length 24 Thickness of shell plates 1/2 Material S Description of longitudinal joint sl Diam. of rivet  
 holes 15 Pitch of rivets 2 1/4 Working pressure of shell by rules 213 Diameter of flue ✓ Material of flue plates ✓ Thickness ✓  
 If stiffened with rings ✓ Distance between rings ✓ Working pressure by rules ✓ End plates: Thickness 3/4 How stayed 2 stays & flanged  
 Working pressure of end plates 140 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 \_\_\_\_\_ Plates \_\_\_\_\_ 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 \_\_\_\_\_

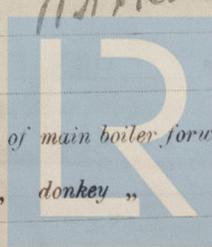
The foregoing is a correct description,

ROBERT STEPHENSON & CO. L<sup>td</sup> Manufacturer.

Dates of Survey while building { During progress of work in shops - - - } 1907 Feb. 25, Mar. 6, 15, 25, Apr. 3, 8, 19, 26, May 6  
 { During erection on board vessel - - - }  
 Total No. of visits 10

Is the approved plan of main boiler forwarded herewith No

" " " donkey " " " "



© 2021

Lloyd's Register Foundation  
W1412-0217

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

The boiler has been built under special survey, the material & workmanship is good.

This boiler has been fitted on board, tested under steam, and found satisfactory, and is now eligible in my opinion to be classed with the notation of **XL.M.6.6.07** in the Register Book.

James Barclay  
# 6.07

Certificate (if required) to be sent to

The amount of Entry Fee... £ : :  
 Special ... £ 2 : 8  
 Donkey Boiler Fee ... £ : :  
 Travelling Expenses (if any) £ : :  
 When applied for. 13 MAY 1907  
 When received. 13/6/07

John H Heck,  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute TUES. 11 JUN 1907

Assigned see minute on  
 Aul Rpt to 1906



EN  
 Di  
 Is  
 in  
 bet  
 line  
 Dia  
 coll  
 No.  
 No.  
 No.  
 In  
 No. o  
 Are a  
 Are a  
 Are t  
 Are th  
 What  
 Are a  
 Are th  
 Dates  
 Is the  
 BOIL  
 Total  
 Workin  
 Can ea  
 each boi  
 Smallest  
 Thickness  
 long. sea  
 Per centa  
 Size of co  
 Length of  
 Working p  
 Pitch of s  
 Material  
 Material  
 Diameter  
 Thickness  
 Diameter o  
 Pitch acro  
 thickness of  
 Working p  
 separately  
 holes  
 If stiffened u  
 Working pr