

Rpt. 5.

# REPORT ON BOILERS.

No. 52897  
Hull 19079  
MON. 17 JUN 1907

Port of Newcastle on Tyne Received at London Office

No. in Survey held at New castle Date, first Survey 25<sup>th</sup> Feb 1907 Last Survey 6 May 1907  
Reg. Book. (Number of Visits 10)

137 Tons on the Steel Sc. K. City of Liverpool. Gross \$88  
Tons { Net 14

Master \_\_\_\_\_ Built at Selby By whom built Cochrane Sons When built 1907

Engines made at Luton By whom made The Vauxhall West Hydraulic Eng<sup>ts</sup> when made 1907

Boilers made at New castle By whom made R<sup>ts</sup> Stephenson & Co L<sup>ts</sup> when made 1907

Registered Horse Power 35.34 Owners London & Peterhead S. F. Co. L<sup>ts</sup> 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* Is forced draft fitted *no* No. and Description of  
Boiler *The Cyl. S. Ind.* Working Pressure *140* Tested by hydraulic pressure to *280* Date of test *6-5-07*  
No. of Certificate *7478* Can each boiler be worked separately *—* Area of fire grate in each boiler *28* *ft* No. and Description of  
safety valves to each boiler *Two Spring* Area of each valve *3.14* *sq* Pressure to which they are adjusted *143 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 *9-13 1/4*  
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 shop* Diameter of rivet holes in long. seams *1* Pitch of rivets *4*  
~~Gap of plates~~ or width of butt straps *10* Per centages of strength of longitudinal joint rivets *78* Working pressure of shell by  
rules *144* Size of manhole in shell *16 x 12* Size of compensating ring *Flanged* plate *75* No. and Description of Furnaces in each  
boiler *2 Plain* Material *S* Outside diameter *36 5/8* Length of plain part top *68* Thickness of plates crown *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* *area* Diameter at  
smallest part *1-4 5/8* 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 n R-W* Working pressure by rules *153* Material of stays *S* *area* 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 13/8* 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* ~~Superheater~~ Steam chest; how connected to boiler *d n* 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 *S lap* Diam. of rivet  
holes *15/16* 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~~ 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 \_\_\_\_\_

Gap 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.*

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

Dates Survey while building { During progress of work in shops - } 1907 Feb. 25. Mar. 6, 15, 26. Apr. 28, 13, 1926. May 6  
 { During erection on board vessel - - - }  
 Total No. of visits 10

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

The retained

W1412-00a7



**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 found satisfactory, and being now in a good and safe working condition, is respectfully submitted as being eligible in my opinion to be classed with the notation of **L.M.B. 6.04** in the Register Book.

James Barclay

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.

TUES. 18 JUN 1907

Committee's Minute

Assigned



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 Foundation