

## REPORT ON BOILERS.

No. 53760

Port of *Newcastle on Tyne*Received at *London Office*

MON. 4 NOV 1907

No. in Survey held at *South Shields*  
Reg. Book.Date, first Survey *May 14*Last Survey *31<sup>st</sup> October 1907*

(Number of Visits)

on the

*Paddle tug "Old Trafford"*Tons } Gross *156*  
Net *2*

Master \_\_\_\_\_ Built at *South Shields* By whom built *Jos. T. Eltringham & Co (S.N. 263)* When built *1907*  
 Engines made at *South Shields* By whom made *Hepple & Co Ltd (Engines No 575)* when made *1907*  
 Boilers made at *South Shields* By whom made *Jos. T. Eltringham & Co (Boilers No 1566)* when made *1907*  
 Registered Horse Power \_\_\_\_\_ Owners *Manchester Ship Canal Co* Port belonging to *Manchester*

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~—Manufacturers of Steel *J. Spencer & Sons*

(Letter for record *7*) Total Heating Surface of Boilers *1393* Is forced draft fitted *No* No. and Description of Boilers *Two Single ended* Working Pressure *45 lbs* Tested by hydraulic pressure to *90 lbs* Date of test *26-7-07*  
 No. of Certificate *7538* Can each boiler be worked separately *Yes* Area of fire grate in each boiler *25* No. and Description of safety valves to each boiler *Two spring* Area of each valve *9.62* Pressure to which they are adjusted *45 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 *10"* dia. of boilers *9'-1"* Length *10'-4"*  
 Material of shell plates *Steel* Thickness *3/8" & 7/16"* Range of tensile strength *28-32 tons* Are the shell plates welded or flanged *No*  
 Descrip. of riveting: cir. seams *lap. & r.* long. seams *lap & r.* Diameter of rivet holes in long. seams *7/8"* Pitch of rivets *3"*  
 Lap of plates *4 1/2"* Per centages of strength of longitudinal joint *90%* Working pressure of shell by rules *52 lbs* Size of manhole in shell *16" x 12"* Size of compensating ring *4" x 3/8"* No. and Description of Furnaces in each boiler *Two plain* Material *Steel* Outside diameter *34"* Length of plain part *83"* Thickness of plates *3/8"* crown *13/32"* bottom *11"*  
 Description of longitudinal joint *lap s.r.* No. of strengthening rings *✓* Working pressure of furnace by the rules *53 lbs* Combustion chamber plates: Material *Steel* Thickness: Sides *15/32"* Back *7/16"* Top *7/16"* Bottom *13/32"* Pitch of stays to ditto: Sides *11/4" x 11/4"* Back *11" x 10"*  
 Top *✓* If stays are fitted with nuts or riveted heads *Auto* Working pressure by rules *46 lbs* Material of stays *Iron* Diameter at smallest part *1 1/32"* Area supported by each stay *132.18* Working pressure by rules *53 lbs* End plates in steam space: Material *Steel* Thickness *9/16"*  
 Pitch of stays *18" x 17 1/2"* How are stays secured *S. & W.* Working pressure by rules *47 lbs* Material of stays *Steel* Diameter at smallest part *1 15/32"*  
 Area supported by each stay *289* Working pressure by rules *52 lbs* Material of Front plates at bottom *Steel* Thickness *9/16"* Material of Lower back plate *Steel* Thickness *1/2"* Greatest pitch of stays *13" x 10"* Working pressure of plate by rules *57 lbs* Diameter of tubes *3 1/2"*  
 Pitch of tubes *4 5/8" x 4 5/8"* Material of tube plates *Steel* Thickness: Front *9/16"* Back *9/16"* Mean pitch of stays *13 7/8"* Pitch across wide water spaces *14 1/2"* Working pressures by rules *46 lbs* *Salm stays* to Chamber tops: Material *Steel* Depth and thickness of girder at centre *✓* Length as per rule *✓* Distance apart *13"* Number and pitch of Stays in each *✓*  
 Working pressure by rules *✓* ~~Superheater~~ or Steam chest: how connected to boiler *Riveted* Can the superheater be shut off and the boiler worked separately *No* Diameter *3'-9"* Length *6'-9"* Thickness of shell plates *3/8"* Material *Steel* Description of longitudinal joint *lap s.r.* Diam. of rivet holes *7/8"* Pitch of rivets *2 1/4"* Working pressure of shell by rules *103 lbs* Diameter of flue *✓* Material of flue plates *✓* Thickness *✓*  
 If stiffened with rings *✓* Distance between rings *✓* Working pressure by rules *✓* End plates: Thickness *9/16"* How stayed *Disked*  
 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 fitted* Working pressure of shell by rules \_\_\_\_\_ Thickness of shell crown plates \_\_\_\_\_  
 Radius of do. \_\_\_\_\_ No. of Stays to do. *Done* Diameter of furnace Top \_\_\_\_\_ Bottom \_\_\_\_\_ Length of furnace \_\_\_\_\_  
 Thickness of furnace plates \_\_\_\_\_ Description of *done* 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,

*Jos. T. Eltringham & Co* Manufacturer's

Dates of Survey while building { During progress of work in shops - *1907 May 14, 17, 29 June 13, 20, 22 July 1, 4, 10, 12, 15, 18, 24, 26, 29, 31* = 16.  
 { During erection on board vessel - *✓*  
 Total No. of visits *Please see Machinery report*

Is the approved plan of main boiler forwarded herewith *Yes*

" " " donkey " " "

007100-007115-0001



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

These boilers have been built under special survey, the material and workmanship is good and efficient.

Certificate (if required) to be sent to

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee...	£	:	When applied for.
Special ...	£		19
Donkey Boiler Fee ...	£		When received.
Travelling Expenses (if any) £			19

Please see  
Machinery  
Report

Committee's Minute

TUES. 5 NOV 1907

Assigned

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



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Lloyd's Register  
Foundation

If not, state whether, and when, one will be sent?

Is a Report also sent on the Hull of the Ship?

Im. 4.6.-T.