

Rpt. 57

Hartlepool

REPORT ON BOILERS.

Hpl No. 13130
No. 51682

Port of *Newcastle*

Received at London Office **SAT NOV 24 1906**

No. in Survey held at *Hartlepool*

Date, first Survey *July 18*

Last Survey *Sep. 27* 19*06*

Reg. Book.

(Number of Visits *4*)

Gross *3808.58*

Net *2485.04*

30 *supp* on the

L.S. Elloe

Master *R.W.B. Blacklin*

Built at *Hartlepool*

By whom built *Furness Withy & Co. S/S 297*

When built *1906*

Engines made at *Hartlepool*

By whom made *Richardsons Westgarth & Co. Ltd*

When made *1906*

Boilers made at *Hartlepool*

By whom made *Clarke Chapman & Co. No. 2614d*

When made *1906*

Registered Horse Power

Owners *Bennetts & Co.*

Port belonging to *Grimsby*

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel *J. Spence & Sons*

(Letter for record *S*) Total Heating Surface of Boilers *565 sq ft* Is forced draft fitted *No* No. and Description of

Boilers *One, single-ended* Working Pressure *100 lbs* Tested by hydraulic pressure to *200 lbs* Date of test *27/9/06*

No. of Certificate *7325* Can each boiler be worked separately Area of fire grate in each boiler *22 sq ft* No. and Description of

safety valves to each boiler *2 Spring* Area of each valve *6.72 sq ft* Pressure to which they are adjusted *100 lbs*

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"* Mean dia. of boilers *9'-0"* Length *9'-0"*

Material of shell plates *Steel* Thickness *9/16"* Range of tensile strength *27-32* 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 *7/8"* Pitch of rivets *4 1/2"*

Lap of plates or width of butt straps *6 1/2"* Per centages of strength of longitudinal joint rivets *80.5%* Working pressure of shell by

rules *102 lbs* Size of manhole in shell *15" x 12"* Size of compensating ring *6" x 9/16"* No. and Description of Furnaces in each

boiler *2 - plain* Material *Steel* Outside diameter *2' 7 7/8"* Length of plain part top *67"* Thickness of plates crown *1/2"* bottom *1/2"*

Description of longitudinal joint *S. Lap.* No. of strengthening rings Working pressure of furnace by the rules *125 lbs* Combustion chamber

plates: Material *Steel* Thickness: Sides *9/16"* Back *9/16"* Top *9/16"* Bottom *9/16"* Pitch of stays to ditto: Sides *10 1/2" x 9 1/4"* Back *10 1/4" x 9 1/2"*

Top *curved* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *111 lbs* Material of stays *Steel* Diameter at

smallest part *1 1/4"* Area supported by each stay *97 sq in* Working pressure by rules *100 lbs* End plates in steam space: Material *Steel* Thickness *3/4"*

Pitch of stays *17" x 12"* How are stays secured *S.H.W.* Working pressure by rules *122 lbs* Material of stays *Steel* Diameter at smallest part *2"*

Area supported by each stay *204 sq in* Working pressure by rules *54 lbs* Material of Front plates at bottom *Steel* Thickness *3/4"* Material of

Lower back plate *Steel* Thickness *3/4"* Greatest pitch of stays *10 1/4"* Working pressure of plate by rules *198 lbs* Diameter of tubes *3"*

Pitch of tubes *4 1/2" x 4"* Material of tube plates *Steel* Thickness: Front *3/4"* Back *1/16"* Mean pitch of stays *10 3/4"* Pitch across wide

water spaces *13"* Working pressures by rules *100 lbs* Girders to Chamber tops: Material *None* Depth and thickness of

girder at centre Length as per rule Distance apart Number and pitch of Stays in each

Working pressure by rules Superheater or Steam chest; how connected to boiler *None* 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

Made at _____ By whom made _____ When made _____ Where fixed _____

Working pressure tested by hydraulic pressure to _____ 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 _____ Stayed by _____ Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____

FOR CLARKE, CHAPMAN & Co. LTD.

The foregoing is a correct description,

J.P. Chapman Manufacturer.

Dates of Survey while building: During progress of work in shops - - - *1906. July 18. Aug. 8. 31. Sep 27*

CHAIRMAN. _____ Total No. of visits *4* Is the approved plan of main boiler forwarded herewith

Is the approved plan of donkey boiler forwarded herewith



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

This donkey boiler has been constructed under special survey & the materials & workmanship are found to be good.

This boiler has now been securely fished on board & the safety valves have been adjusted under steam to the working pressure.

Thos. L. Thornton

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minutes.)

The amount of Entry Fee...	£	:	:	When applied for.
Special	£	:	:	When received.
Donkey Boiler Fee ...	£	0	0	
Travelling Expenses (if any) £	:	:	:	

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

TUES. NOV 27 1906

Committee's Minute
Assigned

These parti...

Signal Letters

Official Num...

1235

No., Date, and Po...

Whether British or Foreign Built.

British

Number of Decks

Number of Mast...

Rigged ...

Stern ...

Build ...

Galleries ...

Head ...

Framework and vessel ...

Number of Bulk...

Number of water and their capa...

Total to quarter at side amidshi...

No. of Engines.

Desc...

Invested acting three spanston

Number of Iron or Steel Pressure w...

G...

Under Tonnage D...

Closed-in spaces a...

Space or spaces

Poop ...

Forecastle

Round House &

Other closed-in

Side House

Excess Hair

Spaces for machin...

Section 78 (2) of 1894, if require...

Gross To...

Deductions, as per Register

Name of

No. of Owners

Name, Residence,

70. Joseph

The only Bridge Sp...

Dated 1906

WB & L (830)—206

