

Rpt. 5

# REPORT ON BOILERS.

No. 49985

Old No. 22654

RECEIVED 14 MAR 1906

Port of Newcastle

Received at London Office

No. in Survey held at Gateshead

Date, first Survey Nov. 21

Last Survey Jan 26 1906

Reg. Book.

(Number of Visits 3)

on the S. S. CAMBRIC

Tons { Gross 3402.57  
Net 2204.29

Master W. Hill Built at Sunderland By whom built Sunderland S. B. Co (No 235) When built 1906

Engines made at Sunderland By whom made North Eastern Mar. Eng. Co. Ltd. when made 1906

Boilers made at Gateshead By whom made Clarke Chapman & Co (No 2490d) when made 1906

Registered Horse Power Owners W. H. Bockerline & Co. Port belonging to Hull

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Spence & Sons

(Letter for record S) Total Heating Surface of Boilers 675 sq 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 26/1/06

No. of Certificate 7160 Can each boiler be worked separately  Area of fire grate in each boiler 27 sq No. and Description of

safety valves to each boiler no, direct spring Area of each valve 4.92 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 on deck Mean dia. of boilers 9'-4 13/16" Length 9' 0"

Material of shell plates Steel Thickness 19/32" 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 15/16" Pitch of rivets 4 1/2"

Lap of plates or width of butt straps 6 13/16" Per centages of strength of longitudinal joint rivets 84.7 plate 80. Working pressure of shell by

rules 102 lbs Size of manhole in shell 15" x 12" Size of compensating ring 6" x 19/32" No. and Description of Furnaces in each

boiler 2 - plain Material Steel Outside diameter 2'-9" Length of plain part top 6'-1" Thickness of plates crown } 1/2" bottom }

Description of longitudinal joint S. Lap No. of strengthening rings  Working pressure of furnace by the rules 111 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 9 1/2" x 9 1/2" Back 9 7/8" x 9 7/8"

Top 11" x 9 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 103 lbs Material of stays Steel Diameter at

smallest part 1.23" Area supported by each stay 97.5 sq Working pressure by rules 102 lbs End plates in steam space: Material Steel Thickness 11/16"

Pitch of stays 15" x 13" How are stays secured S. H. & W. Working pressure by rules 113 lbs Material of stays Steel Diameter at smallest part 1 3/4"

Area supported by each stay 195 sq Working pressure by rules 123 lbs Material of Front plates at bottom Steel Thickness 11/16" Material of

Lower back plate Steel Thickness 11/16" Greatest pitch of stays 11" Working pressure of plate by rules 149 lbs Diameter of tubes 3"

Pitch of tubes 4 1/2" x 4 1/4" Material of tube plates Steel Thickness: Front 11/16" Back 5/8" Mean pitch of stays 11" Pitch across wide

water spaces 13" Working pressures by rules 100 lbs Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 7 1/2" x 9/16" Length as per rule 24" Distance apart 11" Number and pitch of Stays in each 1-10"

Working pressure by rules 113 lbs 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— No. Description Manufacturers of steel

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,

Manufacturer.

J. P. Chapman 1905. Nov. 21 Dec 5 1906. Jan 26.

During progress of work in shops - - -  
During erection on board vessel - - -  
Total No. of visits 3

CHAIRMAN

Is the approved plan of main boiler forwarded herewith

" " " donkey " " " yes



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

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

The Donkey Boiler has been fitted with good mountings in accordance with the Requirements of the Rules and the Safety Valve adjusted to their working pressure under steam, and casing gear fitted.

*W.H.*

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 ... ..	£	:	:	10
Donkey Boiler Fee ...	£	2	2	When received.
Travelling Expenses (if any) £	:	:	:	10

*Monthly account*

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

Committee's Minute

FRI. 16 MAR 1906

Assigned



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