

REPORT ON BOILERS.

No. 4590

Hull - 184127

Dun.

SAT. 20 OCT 1906

Port of MIDDLESBROUGH-ON-TEES.

Received at London Office

No. in Survey held at Stockton

Date, first Survey March 28

Last Survey Oct 17th 1906

Reg. Book.

(Number of Visits)

Tons { Gross
Net

on the Donkey Boiler (No 3688) S. S. Ban. Hong Liong

Master

Built at

By whom built

When built

Engines made at

By whom made

when made 1906

Boilers made at

By whom made

when made 1905-6

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

(Letter for record)

Total Heating Surface of Boilers

Is forced draft fitted

No. and Description of

Boilers

Working Pressure

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of

safety valves to each boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

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

Mean dia. of boilers

Length

Material of shell plates

Thickness

Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

Per centages of strength of longitudinal joint

rivets
plate

Working pressure of shell by

rules

Size of manhole in shell

Size of compensating ring

No. and Description of Furnaces in each

boiler

Material

Outside diameter

Length of plain part

Thickness of plates

crown
bottom

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber

plates: Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

Material of stays

Diameter at

smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space: Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of

Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch across wide

water spaces

Working pressures by rules

Girders to Chamber tops: Material

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

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. One

Description Vertical

Manufacturers of steel J. Spencer & Sons Ltd

Made at Stockton

By whom made Riley Bros (Boilermakers) Ltd

When made 11.5.06 Where fixed on deck

Working pressure 80 lbs

Tested by hydraulic pressure to 160 lbs

No. of Certificate 3667

Fire grate area 26 sq

Description of safety valves

Spring

No. of safety valves 2

Area of each 4.910

Pressure to which they are adjusted 80 lbs

If fitted with easing gear Yes

If steam from main boilers can

enter the donkey boiler No

Dia. of donkey boiler 6'-9"

Length 10'-6"

Material of shell plates Steel

Thickness 7/16"

Range of tensile

strength 28/32

Descrip. of riveting long. seams DRC Lap

Dia. of rivet holes 13/16"

Whether punched or drilled drilled

Pitch of rivets 2 3/4"

Lap of plating 4 3/8"

Per centage of strength of joint

Rivets 73.3

Working pressure of shell by rules 84.7 lbs

Thickness of shell crown plates 3/4"

Radius of do. flat

No. of Stays to do. 6

Dia. of stays 2 1/2 off

Diameter of furnace Top 5'-8 1/2"

Bottom 6'-0 1/2"

Length of furnace 4'-0"

Thickness of furnace plates 23/32

Description of joint SR lap

Working pressure of furnace by rules 103 lbs

Thickness of furnace crown

plates 23/32

Stayed by as above

Diameter of uptake 18" ex

Thickness of uptake plates 7/16"

Thickness of water tubes 3/8"

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building
During progress of work in shops - -
During erection on board vessel - - -
Total No. of visits

1906: March 28. April 4. 24. May 4. 10. 11

Is the approved plan of main boiler forwarded herewith

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donkey

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W1202 0251

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

This boiler has been built under Special Survey.
The materials and workmanship are good and efficient.
After satisfactorily withstanding the hydraulic test it has been
despatched for fitting on board.

This boiler has been fastened on deck. Tested under
steam and safety valves adjusted to 80 lbs. per sq inch

James Barclay.

Certificate (if required) to be sent to

The amount of Entry Fee...	£	:	:	When applied for.
Special	£	:	:	19...
Donkey Boiler Fee ...	£	2	2	When received, Lon.
Travelling Expenses (if any) £	:	:	:	15/6/ 1906 M.R.

R.D. Philston

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

Committee's Minute

TUES. 23 OCT 1906

Assigned



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Foundation