

REPORT ON BOILERS.

No. 50889

Port of *Newcastle*

Entered at London Office *TUES. 22 MAY 1906*

of Safety

No. in Survey held at *Newcastle*

Date, first Survey *Dec 8. 1905*

Last Survey *May 14* 1906.

on the

Donkey boiler for S. Salatis

(Number of Visits)

Tons { Gross *4775*
Net *3059*

Master

Built at *Newcastle*

By whom built *Sir W. E. Armstrong & Whitehead & Co. Ltd.* when built *1906*

Engines made at

Wallsend

By whom made

Wallsend Slip & Eng. Co. Ltd.

when made *1906.*

Boilers made at

Wallsend

By whom made

Wallsend Slipway & Eng. Co. Ltd.

when made *1906.*

Registered Horse Power

Owners *"Kosmos"*

Port belonging to *Hamburg.*

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

Letter for record *S.*

Total Heating Surface of Boilers *8230*

Is forced draft fitted ☒

No. and Description of

Boilers *1 St.*

Working Pressure *180*. Tested by hydraulic pressure to *360*

Date of test *18/12/05*

No. of Certificate *4140*.

Can each boiler be worked separately ☒

Area of fire grate in each boiler *24.5*

No. and Description of

Safety valves to each boiler *2 Spring*

Area of each valve *3.912*

Pressure to which they are adjusted *185 lb.*

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"*

outside

Mean dia. of boilers *10ft*

Length *10ft.*

Material of shell plates *S.*

Thickness *5 1/4"*

Range of tensile strength *28-32*

Are the shell plates welded or flanged *ends*

Descrip. of riveting: cir. seams *2 lap*

long. seams *2 butt.*

Diameter of rivet holes in long. seams *3 1/2"*

Pitch of rivets *6 1/2"*

Top of plates or width of butt straps *14 3/8"*

Per centages of strength of longitudinal joint rivets *89.6*

Working pressure of shell by

rules *194*

Size of manhole in shell *16 x 12"*

Size of compensating ring *in Chells*

No. and Description of Furnaces in each

Boiler *2 Morrison*

Material *S.*

Outside diameter *3' 0 1/2"*

Length of plain part *top*

Thickness of plates *coron 2 3/4"*

bottom 1 6/4"

Description of longitudinal joint *weld.*

No. of strengthening rings *—*

Working pressure of furnace by the rules *198 lb.*

Combustion chamber

Plates: Material *S.*

Thickness: Sides *19/32*

Back *19/32*

Top *19/32*

Bottom *3/4"*

Pitch of stays to ditto: Sides *4 1/2 x 4 1/2"*

Back *4 1/2 x 4 1/2"*

Top *4 1/2 x 4 1/2"*

If stays are fitted with nuts or riveted heads *nuts.*

Working pressure by rules *210*

Material of stays *S.*

Diameter at

smallest part *1.35*

Area supported by each stay *58"*

Working pressure by rules *198*

End plates in steam space: Material *S.*

Thickness *1 1/8"*

Pitch of stays *1 1/2 x 1 1/2"*

How are stays secured *d nuts*

Working pressure by rules *194*

Material of stays *S.*

Diameter at smallest part *2.53"*

Area supported by each stay *23*

Working pressure by rules *224"*

Material of Front plates at bottom *S.*

Thickness *1 1/4"*

Material of

Lower back plate *S.*

Thickness *1 1/8"*

Greatest pitch of stays *13 3/4"*

Working pressure of plate by rules *246*

Diameter of tubes *3 1/2"*

Pitch of tubes *4 3/8 x 4 3/8"*

Material of tube plates *S.*

Thickness: Front *3/4"*

Back *3/4"*

Mean pitch of stays *8 3/4"*

Pitch across wide

water spaces *13 3/4"*

Working pressures by rules *189 lb.*

Girders to Chamber tops: Material *S.*

Depth and thickness of

girder at centre *6 3/4 x 12"*

Length as per rule *254*

Distance apart *4 1/2"*

Number and pitch of Stays in each *20 x 7 3/8"*

Working pressure by rules *202.*

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.

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

The foregoing is a correct description,

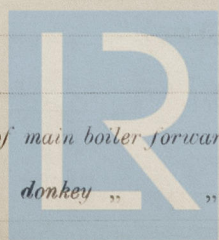
Manufacturer.

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

Please see report on machinery.

Is the approved plan of main boiler forwarded herewith

" " " donkey " "



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W1623-0314

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

Materials & workmanship good. Boiler built
& fitted on board. Examined under steam & found satisfactory
J. E. Findlay.

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	£	:	:	17 MAY 1906
Donkey Boiler Fee ...	£	2	0	When received.
Travelling Expenses (if any) £	:	:	:	21 MAY 1906

[Signature]

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

Committee's Minute

FRI. 25 MAY 1906

Assigned

See minute on attached report



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