

## REPORT ON BOILERS.

No. 7165

MON. SEP 24 1906

Port of *Antwerp*

Received at London Office

10

No. in

Survey held at *Seraing & Hoboken*Date, first Survey *January 26*Last Survey *Sept. 12*

1906

of Safety Reg. Book

Supp 2 on the

Master *Markerville*Built at *Hoboken*By whom built *John Crokerill*When built *1906*Engines made at *Seraing*By whom made *John Crokerill*when made *1906*Boilers made at *do.*By whom made *do.*when made *1906*Registered Horse Power *262*Owners *Soc. Ruise d'Assurance et de Transport*Port belonging to *Odesa*MULTITUBULAR BOILERS—~~MAIN, AUXILIARY OR~~ DONKEY.—Manufacturers of Steel *John Crokerill & Thysen & Co. Duisburg, Rhine*(Letter for record *S*)Total Heating Surface of Boilers *527 sq*Is forced draft fitted *no*

No. and Description of

Boilers *One single ended*Working Pressure *170*Tested by hydraulic pressure to *340*Date of test *25.6.06*No. of Certificate *10*Can each boiler be worked separately *✓*Area of fire grate in each boiler *18 sq*

No. and Description of

safety valves to each boiler *2 Spring loaded*Area of each valve *3.14 sq*Pressure to which they are adjusted *175 lb*Are they fitted with easing gear *240*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 *88 3/8*Length *114"*Material of shell plates *Steel*Thickness *3/4*Range of tensile strength *27-32*Are the shell plates welded or flanged *✓*Descrip. of riveting: cir. seams *double*long. seams *double*Diameter of rivet holes in long. seams *29/32*Pitch of rivets *4 1/16*Lap of plates or width of butt straps *10"*Per centages of strength of longitudinal joint *81*

Working pressure of shell by

rules *190*Size of manhole in shell *15 3/4 x 11 3/4*Size of compensating ring *23 7/8 x 3/4*

No. and Description of Furnaces in each

boiler *One Morrison*Material *steel*Outside diameter *41 3/8*Length of plain part *top*Thickness of plates *19/32*bottom *19/32*Description of longitudinal joint *welded*No. of strengthening rings *✓*Working pressure of furnace by the rules *173*

Combustion chamber

plates: Material *Steel*Thickness: Sides *9/16*Back *9/16*Top *9/16*Bottom *9/16*Pitch of stays to ditto: Sides *8*Back *8*Top *8*If stays are fitted with nuts or riveted heads *nuts*Working pressure by rules *170*Material of stays *steel*

Diameter at

smallest part *1.48"*Area supported by each stay *640"*Working pressure by rules *184*End plates in steam space: Material *Steel*Thickness *15/16*Pitch of stays *14 9/16*How are stays secured *nuts & washers*Working pressure by rules *200*Material of stays *steel*Diameter at smallest part *2 3/8*Area supported by each stay *2400"*Working pressure by rules *210*Material of Front plates at bottom *steel*Thickness *15/16*

Material of

Lower back plate *steel*Thickness *9/16*Greatest pitch of stays *8"*Working pressure of plate by rules *170*Diameter of tubes *3"*Pitch of tubes *4 1/8*Material of tube plates *steel*Thickness: Front *15/16*Back *53/64*Mean pitch of stays *8 1/2"*

Pitch across wide

water spaces *12 13/16*Working pressures by rules *170*Girders to Chamber tops: Material *Steel*

Depth and thickness of

girder at centre *5 1/8 x 2"*Length as per rule *21 7/8*Distance apart *8"*Number and pitch of Stays in each *2-8"*

Can the superheater be shut off and the boiler worked

Working pressure by rules *225*

Superheater or Steam chest: how connected to boiler

Description of longitudinal joint

Diam. of rivet

separately

Diameter

Length

Thickness of shell plates

Material

holes

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

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

Manufacturers of steel

When made

## 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 - - -

Total No. of visits

*January 26. March 13. April 6, 27. June 8, 15. -**June 25, 26. July 10, 11. August 3, 11, 20, 22. Sept. 8, 12.*

Is the approved plan of main boiler forwarded herewith

" donkey "

" " "

yes.

Lloyd's Register Foundation



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

This boiler has been built under Purvis. The materials & workmanship are of good description. It was tested by hydraulic pressure to twice the working pressure & was quite free from leakage. The Boiler has been fitted on board in accordance with the Rules. The safety valves have been adjusted under steam to blow at 175 lb per sq in.

Port of

No. in Reg. Book

Owners

Yard No.

DESIGN

Capacity

Where

Position

Position

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

Committee's Minute TUES SEP 25 1906 TUES. SEP 25 1906

Assigned see minute on F.E. report.

H. F. Cornish

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



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