

# REPORT ON BOILERS.

Michy. Rept. No. 73097

No. 70093

2 - AUG 1917

Received at London Office

FRI 3 AUG 1917

ing Report 30 July 1917 When handed in at Local Office

191

Port of **NEWCASTLE ON TYNE.**

Survey held at *Newcastle on Tyne*

Date, First Survey *18th May 1917*

Last Survey *26th July 1917*

191

on the *Screw Steamer 'Jacobus'* (Livingstone & Cooper's 1155 tons)

Built at

By whom built *Livingstone & Cooper*

When built

ade at *R. Shields*

By whom made *Shields Eng. & Dry Dock Co. Ld.*

When made *1917*

ade at *St. Peter*

By whom made *R. W. Stanthorn Leslie & Co. Ld.*

When made *1914*

Horse Power

Owners

Port belonging to

**TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.**—Manufacturers of Steel *J. Spence & Sons Ltd.*

record *S.* ) Total Heating Surface of Boilers *2672* Is forced draft fitted *no* No. and Description of

*2 Cylinders, single* Working Pressure *180 lbs* Tested by hydraulic pressure to *260 lbs* Date of test *26/7/17*

ertificate *8983* Can each boiler be worked separately *Yes* Area of fire grate in each boiler No. and Description of

es to each boiler Area of each valve Pressure to which they are adjusted

fitted with easing gear In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers *13' 9"* Length *10' 4 1/2"*

f shell plates *Steel* Thickness *1 1/8"* Range of tensile strength *28 to 32 tons* Are the shell plates welded or flanged *no*

f riveting: cir. seams *Lap joints* long. seams *Butt joints* Diameter of rivet holes in long. seams *1 1/8"* Pitch of rivets *8"*

width of butt straps *17 1/2"* Per centages of strength of longitudinal joint rivets *92* Working pressure of shell by

Size of manhole in shell *21 x 14"* Size of compensating ring *Flanged Ring* No. and Description of Furnaces in each

*Plain* Material *Steel* Outside diameter *39 1/2"* Length of plain part *46"* Thickness of plates *3"*

of longitudinal joint *Weld* No. of strengthening rings *None* Working pressure of furnace by the rules *184 lbs* Combustion chamber

aterial *Steel* Thickness: Sides *1/8"* Back *5/8"* Top *1/8"* Bottom *1"* Pitch of stays to ditto: Sides *9 1/2 x 9 1/2"* Back *8 1/2 x 8 1/2"*

If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *182 lbs* Material of stays *Steel* Diameter at

rt *1 1/2"* Area supported by each stay *42 1/2"* Working pressure by rules *191 lbs* End plates in steam space: Material *Steel* Thickness *1 1/4"*

ays *8 x 2 3/4"* How are stays secured *With nuts* Working pressure by rules *187 lbs* Material of stays *Steel* Diameter at smallest part *4 1/4"*

orted by each stay *42 1/2"* Working pressure by rules *180 lbs* Material of Front plates at bottom *Steel* Thickness *5/8"* Material of

plate *Steel* Thickness *5/8"* Greatest pitch of stays *14 1/2"* Working pressure of plate by rules *206 lbs* Diameter of tubes *3"*

es *14"* Material of tube plates *Steel* Thickness: Front *5/8"* Back *3/4"* Mean pitch of stays *9 1/2"* Pitch across wide

Working pressures by rules *184 lbs* *209 lbs* Girders to Chamber tops: Material *Steel* Depth and thickness of

entre *9 x 1 1/2"* Length as per rule *30.6"* Distance apart *9 1/2"* Number and pitch of Stays in each *2: 9 1/2"*

ressure by rules *201 lbs* Superheater or Steam chest: how connected to boiler *None* Can the superheater be shut off and the boiler worked

Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

ressure of end plates Area of safety valves to superheater Are they fitted with easing gear

The foregoing is a correct description,

Manufacturer.

During progress of work in shops - *May 18 25 30 Jun 5 11 Jul 4 19 26*

Is the approved plan of boiler forwarded herewith *Yes*

During erection on board vessel - *Lee Rept. No. 73097*

Total No. of visits *8*

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

The main boilers of this vessel were built under Special Survey the materials and workmanship are good. On completion they tested as required by the Rules and found tight and sound.

Fee ... £ 10 : 15 : - When applied for, *2 - AUG 1917*

ing Expenses (if any) £ : : When received, *22 9 1917*

*Wm. R. Austin*  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

ee's Minute *FRI MAY 21 1920*

*See First Entry report*



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