

Mch. Rept. no. 73097

REPORT ON BOILERS.

No. 70093

2 - AUG 1917

Received at London Office FRI - 3 AUG 1917

Report 30 July 1917 When handed in at Local Office

Port of **NEWCASTLE ON TYNE.**

Survey held at Newcastle on Tyne Date, First Survey 18th May 1917 Last Survey 26th July 1917

on the Screw Steamer 'Jacobus' (Livingstone & Cooper, N.Y.S. Steamer) }
Gross
Net

Built at _____ By whom built Livingstone & Cooper When built _____

Made at R. Shields By whom made Shields Eng. & Dry Dock Coy. L^{td} When made 1917

Made at St. Peter By whom made R. W. Hawthorn Leslie & Co. L^{td} When made 1914

Horse Power _____ Owners _____ Port belonging to _____

TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Spencers Sons Limited

Total Heating Surface of Boilers 3672 Is forced draft fitted no No. and Description of _____

Working Pressure 180 lbs Tested by hydraulic pressure to 260 lbs Date of test 26/7/17

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

Pressure to which they are adjusted _____ In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler _____

Mean dia. of boilers 13' 9" Length 10' 4 1/2"

Thickness 1 1/2" Range of tensile strength 28 to 32 tons Are the shell plates welded or flanged no

Diameter of rivet holes in long. seams 1 3/16" Pitch of rivets 8"

Per centages of strength of longitudinal joint _____ Working pressure of shell by _____

Size of manhole in shell 21 x 17 Size of compensating ring flanged ring No. and Description of Furnaces in each _____

Material Steel Outside diameter 39 1/2" Length of plain part _____ Thickness of plates _____

Working pressure of furnace by the rules 184 lbs Combustion chamber _____

Material 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"

Working pressure by rules 182 lbs Material of stays Steel Diameter at _____

Working pressure by rules 190 lbs End plates in steam space: Material Steel Thickness 1 1/4"

Working pressure by rules 180 lbs Material of stays Steel Diameter at smallest part 4 1/4"

Material of Front plates at bottom Steel Thickness 1 5/16" Material of _____

Working pressure of plate by rules 206 lbs Diameter of tubes 3"

Material of tube plates Steel Thickness: Front 15/16" Back 3/4" Mean pitch of stays 9.8" Pitch across wide _____

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

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

Superheater or Steam chest: how connected to boiler none Can the superheater be shut off and the boiler worked _____

Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet _____

Working pressure of shell by rules _____ Diameter of flue _____ Material of flue plates _____ Thickness _____

End plates: Thickness _____ How stayed _____

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 Total No. of visits 8

During erection on board vessel - - - See Rept. no. 73097

GENERAL 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 were tested as required by the Rules and found tight and sound.

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

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

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

ee's Minute FRI. MAY. 21 1920

See First Entry report

