

REPORT ON BOILERS.

No. 27588.
WED. 7 APR 1909
SAT. 12 JUN 1909

Date of writing Report *April 1st 09* When handed in at Local Office *3/4/1909* Port of *Glasgow*
No. in Survey held at *Glasgow* Date, First Survey *4th Feb 1908* Last Survey *2nd April 1909*
Reg. Book. on the *Donkey Boiler for Messrs J. Y. Eltringham & Co's S. S. No 241* (Number of Visits *9*) Gross *515* Tons Net *197*
Master *S. Shields* Built at *S. Shields* By whom built *J. Y. Eltringham & Co* When built *1909. 6*
Boilers made at *S. Shields* By whom made *J. Y. Eltringham & Co* When made *1909.*
Owners *Spicer & Sakers Ltd.* Port belonging to *Cardiff*

VERTICAL DONKEY BOILER

No. *4802* Description *Cochran Patent* Manufacturers of steel *Stewart & Lloyd's*
Made at *Glasgow* By whom made *Cochran & Co Glasgow Ltd.* When made *1909* Where fixed *S. Shields* Working pressure *100 lbs.*
tested by hydraulic pressure to *200 lbs.* Date of test *2/4/09* No. of Certificate *9826* Fire grate area *10 1/4* Description of safety valves *Spring*
No. of safety valves *2* Area of each *4.9* Pressure to which they are adjusted *100 lb.* If fitted with easing gear *yes* If steam from main boilers can enter the donkey boiler *no* Dia. of donkey boiler *4'-6"* Length *10'-0"* Material of shell plates *steel* Thickness *3/8" & 1/2"* Range of tensile strength *28.28 tons* Descrip. of riveting long. seams *double pin lap* Dia. of rivet holes *23/32"* Whether punched or drilled *drilled* Pitch of rivets *2 1/2", 2 3/8", 2 1/2"*
Lap of plating *3 5/8"* Per centage of strength of joint *68.8* Working pressure of shell by rules *104 lbs* Thickness of shell crown plates *9/16"*
Radius of do. *4'-9"* No. of Stays to do. *none* Dia. of stays *none* Diameter of furnace Top *22 1/2"* Bottom *18"* Length of furnace *2'-8 1/2"*
Thickness of furnace plates *2 1/4" & 9/16"* Description of joint *solid double & punched* Working pressure of furnace by rules *133 lbs* Thickness of furnace crown plates *1/2"* Radius of do. *22 1/2"* Stayed by *hill* Diameter of uptake *10 1/2" x 14"* Thickness of uptake plates *1/2"*
Thickness of water tubes plates *1/2" & 1 1/32"*

The foregoing is a correct description.

For COCHRAN & CO., LIMITED, Manufacturer.

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

1909. Feb 4. 12. 19. 26. Mar 5. 12. 19. 23. April 2

See Maily report

Is the approved plan of boiler forwarded herewith

yes.

GENERAL REMARKS

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

This Boiler has been made under Survey the materials & workmanship are of good description and the Hydraulic test proved satisfactory

DRAWING No 480.

Boiler forwarded to South Shields 5/4/09.

Request form No C 77 attached.

This Boiler has now been fitted in the above Vessel.

W. Lane.

Survey Fee ... £ 2 : 2 :
Travelling Expenses (if any) £ : :

When applied for, *Monthly 1909*
When received, *19*

James Morrison

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

GLASGOW

6 APR. 1909

TUES. 15 JUN 1909

Committee's Minute

Assigned

Transmit to London