

WED. SEP. 18. 1912

Rpt. 5b.

# REPORT ON BOILERS.

No. 31530

Received at London Office WED. JUN. 5-1912

Date of writing Report 1-6-1912 When handed in at Local Office 4-6-1912 Port of Glasgow  
No. in Survey held at Annan Date, First Survey 24-4-12 Last Survey 31-5-1912  
Reg. Book. 3 Sup. on the Donkey Boiler for S.S. "Wheatlands" (Muir & Houston's 647 h.p. engine) Tons Gross Net  
Master Glendinning Built at Dublin By whom built Dublin Dockyard Co. When built 1912  
Boiler made at Annan By whom made Cochran & Co. Annan Ltd. When made 1912  
Owners Spillers & Bakers Ltd. Port belonging to Cardiff.

VERTICAL DONKEY BOILER— No. 5760 Description Cochran Pat Manufacturers of steel Glasgow & Steel Co.  
Made at Annan By whom made Cochran & Co. When made 1912 Where fixed Stokehold Working pressure 100  
tested by hydraulic pressure to 200 Date of test 31-5-12 No. of Certificate 11614 Fire grate area 9.75 Description of safety valves 1—spring loaded  
No. of safety valves 1. Area of each 4.97 Pressure to which they are adjusted 103 lbs If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler No Dia. of donkey boiler 4-6 Length 10-6 Material of shell plates S Thickness  $\frac{3}{8}$  -  $\frac{7}{16}$  Range of tensile strength 28-32 Descrip. of riveting long, seams dl Dia. of rivet holes  $\frac{23}{32}$  Whether punched or drilled d Pitch of rivets  $\frac{2-33}{2-41}$   
Lap of plating  $3\frac{5}{8}$  Per centage of strength of joint Rivets 76 Plates 69 Working pressure of shell by rules 104 Thickness of shell crown plates  $\frac{7}{16}$   
Radius of do. 4-9 No. of Stays to do. 4 Dia. of stays 1 Diameter of furnace Top 22 $\frac{1}{2}$  Bottom 22 Length of furnace 2-8 $\frac{1}{2}$   
Thickness of furnace plates  $\frac{1}{2}$  -  $\frac{3}{8}$  Description of joint hemispherical & R<sup>4</sup> Ring Working pressure of furnace by rules 133 Thickness of furnace crown plates  $\frac{1}{2}$  Radius of do. 22 $\frac{1}{2}$  Stayed by hemispherical Diameter of uptake 10 $\frac{1}{2}$  x 17 Thickness of uptake plates  $\frac{1}{2}$   
Thickness of motor tubes Plate F  $\frac{3}{8}$  - B  $\frac{1}{2}$  The foregoing is a correct description, For GEORGE & CO., ANNAN, LIMITED Manufacturer. 7612

Dates of Survey { During progress of work in shops - 19th April 24. May 3. 17. 24. 31.  
while building { During erection on board vessel - -  
Total No. of visits 5.

Is the approved plan of boiler forwarded herewith p. 2: 9016.

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

The material & workmanship is good.  
The boiler has been built under special Survey.

Survey request form

No. 6609 attached

This boiler has been securely fitted aboard the above named vessel and its safety valve adjusted under steam.

Survey Fee ... £ 2 : 2 : When applied for, Monthly A/S  
Travelling Expenses (if any) £ : : When received, 19

Committee's Minute

Assigned

GLASGOW

4- JUN 1912

Transmit to London

John H Heck, P. J. Brown  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

GLASGOW

17 SEP 1912

FRI. SEP. 20. 1912

See Minute on Machinery

Lloyd's Register

W1647