

Rpt. 5b.

# REPORT ON BOILERS.

Newcastle Report No. 66117  
SAT. MAY. 23. 1914

No. 33093

WED. SEP. 10. 1913

Date of writing Report 19 When handed in at Local Office 6-9-13 Port of Glasgow  
No. in Survey held at Annan Date, First Survey 29-5-13 Last Survey 4 Sept 1913  
Reg. Book. on the Boilers No 6112-6113 for Swan Hunter & Wigham Richardson Lim 75 916  
Master Built at Newcastle By whom built Swan Hunter & Wigham Richardson When built 1913.  
Boilers made at Annan By whom made Cochran & Co Annan Lim When made 1913.  
Owners Lower Motor Co Port belonging to London

**VERTICAL DONKEY BOILER**— No. 6112 Description 2 Cochran Patent Manufacturers of steel & Colville Sons.  
Made at Annan By whom made Cochran & Co Annan Ltd. When made 1913. Where fixed on Deck Working pressure 100 lbs.  
tested by hydraulic pressure to 200 Date of test { 7-8-13 } { 14-8-13 } No. of Certificate 12239 Fire grate area 22.5 Description of safety valves Two Spring loaded  
No. of safety valves 2 Area of each 4.91 Pressure to which they are adjusted 100 lbs If fitted with easing gear yes If steam from main boilers can enter the donkey boiler  
Dia. of donkey boiler 6'-6" Length 16'-3" Material of shell plates steel Thickness  $\frac{1}{2}$ " -  $\frac{19}{32}$ " Range of tensile strength  $\frac{28}{32}$  tons Descrip. of riveting long. seams DR lap Dia. of rivet holes  $\frac{27}{32}$  Whether punched or drilled drilled Pitch of rivets  $2\frac{5}{8}$  -  $2\frac{7}{16}$   
Lap of plating 4  $\frac{1}{8}$  Per centage of strength of joint Rivets 71.1 Plates 67.3 Working pressure of shell by rules 106 Thickness of shell crown plates  $\frac{7}{16}$  -  $\frac{27}{32}$   
Radius of do. 3'-3" No. of Stays to do. Hemisphere Dia. of stays Diameter of furnace Top 2'-9" rad Bottom 5'-6" Length of furnace 3'-3  $\frac{7}{8}$   
Thickness of furnace plates  $\frac{1}{2}$ " -  $\frac{27}{32}$ " Description of joint hemispherical & R<sup>2</sup> lap Working pressure of furnace by rules 100 Thickness of furnace crown plates  $\frac{1}{2}$ " Radius of do. 2'-9" Stayed by Hemisphere Diameter of uptake 13" x 22 Thickness of uptake plates  $\frac{9}{16}$   
Thickness of water tubes plates F  $\frac{13}{16}$  B  $\frac{23}{32}$   
w.s.

The foregoing is a correct description.  
FOR COCHRAN & CO., ANNAN, LTD.  
Manufacturer.

Dates of Survey { During progress of work in shops -- } 1913. May 29. June 6-13-20-27. Aug 5-7. Sept 4.  
while { During erection on board vessel -- }  
building { Total No. of visits 8. }  
Is the approved plan of boiler forwarded herewith yes E 8440

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

The Material & workmanship is good.  
The boilers have been built under special survey  
The furnaces, gas tight doors & the uptakes tested by a head of water of 10 feet above smoke box & found satisfactory.

## Survey request form

No. 841/2 attached

Three Boilers have been efficiently mounted & fitted on board and their safety valves adjusted under steam as above noted. An oil burning installation on the Wallerud system has been fitted and complying with all the requirements of Section 49 of the Rules

W. Cowie

Survey Fee ... £ 4 : 4 :  
Travelling Expenses (if any) £ : :  
When applied for, Money order  
When received, 19

Committee's Minute

GLASGOW

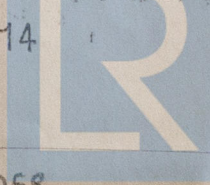
9-SEP. 1913

TUE. MAY. 26. 1914

Assigned

Transmit to London. Dec

John H Heck & A. McLeod  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.



Lloyd's Register  
Foundation

4970-0058