

# REPORT ON BOILERS.

No. 28382.

WED. 8 DEC 1909

Date of writing Report 29-11-1909 When handed in at Local Office

1/12/09 Port of Glasgow

No. in Survey held at Annan

Date, First Survey 28th Sept Last Survey 26 Nov 1909

Reg. Book. on the Donkey Boiler for S.S.

(2 Thompson & Son S.S. 471)

Gross Tons Net

Master Built at

By whom built

When built

Boilers made at Annan

By whom made Cochran & Co. Annan, Ld

When made 1909

Owners Port belonging to

**VERTICAL DONKEY BOILER**— No. 5045 Description Cochran Pat. Manufacturers of steel Beardmore & Co. Made at Annan By whom made Cochran & Co. When made 1909 Where fixed Main deck Working pressure 100 Tested by hydraulic pressure to 200 Date of test 26-11-09 No. of Certificate 10204 Fire grate area 41 Description of safety valves Spring No. of safety valves 2 Area of each 12.5 Pressure to which they are adjusted 102 If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler No Dia. of donkey boiler 8-6 Length 17-0 Material of shell plates S Thickness  $\frac{5}{8}$  -  $\frac{23}{32}$  Range of tensile strength 28-32 Descrip. of riveting long. seams d lap Rivets 68.2 Dia. of rivet holes  $\frac{31}{32}$  Whether punched or drilled d Pitch of rivets 2-875 2-937 Lap of plating  $4\frac{3}{4}$  Per centage of strength of joint Plates 66.3 Working pressure of shell by rules 106 Thickness of shell crown plates  $\frac{9}{16}$  -  $\frac{1}{2}$  Radius of do. 4-3 No. of Stays to do hemispherical Dia. of stays 3-9 Bottom Length of furnace 4-4  $\frac{1}{8}$  Thickness of furnace plates  $\frac{3}{4}$  Description of joint hemispherical & Riveting Working pressure of furnace by rules 100 Thickness of furnace crown plates  $\frac{3}{4}$  Radius of do. 3-9 Stayed by hemispherical Diameter of uptake 18 x 28  $\frac{1}{2}$  Thickness of uptake plates  $\frac{5}{8}$  Thickness of water tubes Plate F. 15 B. 7/8 The foregoing is a correct description. For COCHRAN & CO. ANNAN, LIMITED, Manufacturer.

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

1909. Sep 28. Oct 1. 15. Nov 5. 10. 16. 19. 26.

8.

Is the approved plan of boiler forwarded herewith Yes.

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

The material & workmanship is good. The boiler has been built under special survey. Examined under steam & found satisfactory.

J. Y. Eridley

Survey request form

No. C164 attached

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

When applied for Month as When received 19

John H Heck

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

Committee's Minute

GLASGOW 7-DEC. 1909

WED. 30 MAR 1910

Assigned Transmit to London

Lloyd's Register Foundation

W241-0199