

Boiler 4890

REPORT ON BOILERS.

Old No 24532,
No. 28092.

Received at London Office **WED 8 SEP 1909**

Date of writing Report 30-8-1909 When handed in at Local Office 2-9-1909 Port of Glasgow 27th Jan'y 1910

No. in Survey held at Ayrman Date, First Survey 16th April 1909 Last Survey 27 Augst 1909

Reg. Book. Donkey boiler, J Crown & Sons S-S-134 "Bondicar" (Number of Visits 16) Gross 1447 Tons Net 804

Master Sunderland By whom built J Crown & Sons When built 1909-10

Boiler made at Ayrman By whom made Cochran & Co. Ayrman, Lt When made 1909

Owners Broomhill Collieries Ltd Port belonging to Newcastle

VERTICAL DONKEY BOILER— No. 4890 Description Cochran Pat^l Manufacturers of steel Colville & Beardmore &

Made at Ayrman By whom made Cochran & Co. When made 1909 Where fixed Stokehold Working pressure 100

tested by hydraulic pressure to 200 Date of test 27-8-09 No. of Certificate 10096 Fire grate area 18-7 ϕ Description of safety valves Spring

No. of safety valves 2 Area of each 7.07 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 6'-0" Length 12'-0" Material of shell plates S Thickness $\frac{15}{32}$ - $\frac{12}{32}$ Range of tensile strength 28-32 Descrip. of riveting long. seams dl Dia. of rivet holes $\frac{27}{32}$ Whether punched or drilled d Pitch of rivets 2-656

Lap of plating $4\frac{1}{2}$ Per centage of strength of joint Rivets 72-3 Working pressure of shell by rules 106 Thickness of shell crown plates $\frac{19}{32}$

Radius of do. 6'-6" No. of Stays to do. 4 front Dia. of stays $\frac{9}{16}$ Plate Reel Diameter of furnace Top 2'-6" Bottom ✓ Length of furnace 3'-4 $\frac{5}{16}$

Thickness of furnace plates $\frac{1}{2}$ - $\frac{11}{16}$ Ring Description of joint dished & Riv Ring Working pressure of furnace by rules 100 Thickness of furnace crown plates $\frac{1}{2}$ - $\frac{11}{16}$ Ring Radius of do. 2'-6" Stayed by hemisphere & Riv Ring Diameter of uptake 13 x 19 $\frac{1}{2}$ Thickness of uptake plates $\frac{9}{16}$

Thickness of water tubes Plate F. $\frac{25}{32}$ B $\frac{21}{32}$

The foregoing is a correct description,
For **COCHRAN & CO., AYRMAN, LIMITED,** Manufacturer.

Dates { During progress of work in shops - - } 1909. Apr. 16. 23. 29. May 7. 14. 18. 24. 26. June 2. 11. 16. 18. 30. **Director.**

{ During erection on board vessel - - - } July 8. Aug. 20. 24. - Old: - Jan. 1910, 11. 13. 14. 21. 27

Total No. of visits 16 21. Is the approved plan of boiler forwarded herewith duplicate yes

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Drawing 7491

The material & workmanship is good.

The boiler has been built under Special Survey.

Examined under Steam & Safety valves all found satisfactory J. Y. Hindlay

Survey request form

No. 96 attached

Survey Fee £ 2 : 2 : When applied for, 19

Travelling Expenses (if any) £ : : : When received, 19

Committee's Minute **GLASGOW 7 SEP. 1909**

Assigned Transmit to London.

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

TUES. 1 FEB 1910
TUES. 15 MAR 1910
FRI 19 FEB 1937 Lloyd's Register Foundation

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