

Rpt. 5e.

## REPORT ON BOILERS.

No. 47062

Date of writing Report 22<sup>nd</sup> Sept 1927 When handed in at Local Office 22. 9. 1927 Port of Glasgow  
 No. in Survey held at Annan Scotland Date, First Survey 24. 6. 27 Last Survey 20<sup>th</sup> Sept 1927  
 Reg. Book. 40019 on the Cochran Boiler 10522 M. V. Belpamela  
 Master Built at Newcastle By whom built Armstrong Whitworth & Co. Ltd When built 1928  
 Boilers made at Annan Scotland By whom made Cochran & Co. Annan Ltd When made 1927.  
 Owners A/S Robert Belpamela Port belonging to Oslo

VERTICAL DONKEY BOILER— No. One Description Cochran Type Manufacturers of steel D. Colville & Sons, Ltd.  
 Made at Annan By whom made Cochran & Co. When made 1927 Where fixed Platform Working pressure 150 lbs  
 tested by hydraulic pressure to 275 lbs Date of test 20/9/27 No. of Certificate 17584 Fire grate area 187 sq ft Description of safety valves Direct spring  
 No. of safety valves 2 Area of each 3/40 Pressure to which they are adjusted 150 lbs If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler No Diameter of donkey boiler 6'-0" Length 15'-9" Material of shell plates Steel Thickness 19/32", 1/16", 19/32"  
 Range of tensile strength 28/32 Description of riveting long seams D.R. Lap Diameter of rivet holes 31/32" Whether punched or drilled Drilled Pitch of rivets 3" 107, 3.116, 3PS 4" Lap of plating 4 3/4" Per centage of strength of joint Rivets 40.1% Working pressure of shell by rules 150.5 lbs Plates 66%  
 Thickness of shell crown plates 9/16" Radius of do. 3'-0" No. of stays to do. Diameter of stays Diameter of furnace—Top hemispherical Bottom 5'-0" Length of furnace 3'-6 3/4" Thickness of furnace side plates 5/8" Description of joint Seamless & Ogee Working pressure of furnace by rules 144 lbs Thickness of Ogee ring 1" Working pressure of Ogee ring by rules 155.8 lbs Thickness of furnace crown plates 5/8" Radius of do. 3'-6" Stayed by Hemispherical Diameter of uptake 15" x 18" Thickness of uptake plates 9/16" Thickness of tube plates front 1 1/4" back 5/16" Mean pitch of stay tubes in nest 18 1/4" x 10 1/16" Pitch in outer vertical rows 4 1/2"  
 Diameter of tube holes FRONT stay 2 1/16" BACK stay 3 1/2" Working pressure of tube plates by rules FRONT 152.5 lbs BACK 152.9 lbs Tubes: Material L.W. W.I.  
 External diameter stay 2 1/2" plain 2 1/2" Thickness stay 1/32" plain 10 LSG. No. of threads per inch 9 Pitch of tubes 3 3/4" x 3 9/16"  
 Working pressure by rules 175 lbs Manhole compensation: Size of opening in shell plate 12 x 16" Section of compensating ring 6" x 5 1/16" No. of rivets and diameter of rivet holes 36 @ 3 1/32" Outer row pitch at ends 3 3/4"

The foregoing is a correct description.

For COCHRAN &amp; CO., ANNAN, LIMITED

J. E. Woodham

Manufacturer.

Dates of Survey while building During progress of work in shops 1927 Jun 24-28 July 8-12-29 Aug 9 Sep 2-13-20 Drawing No. 15774  
 During erection on board vessel  
 Total No. of visits 9

Is the approved plan of boiler forwarded herewith Yes

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Boiler has been built under Survey in accordance with the Rules & approved plan. Materials and workmanship good.

This boiler is for Messrs. Armstrong Whitworth & Co. Ltd for their Engine No 66.

This Donkey Boiler has been securely fitted on board, steam raised and the safety valves adjusted to 150 lbs per sq. in.

C. H. Woodcock Mre

Survey Fee ... £ 4 : 4  
 Travelling Expenses (if any) £ :

When applied for 19  
 When received 19

MONTHLY ACCOUNT

Committee's Minute GLASGOW 27 SEP 1927

Assigned TRANSMIT TO LONDON

J. F. Nicholas

Engineer Surveyor to Lloyd's Register of Shipping.

TUES. 13 MAR 1928

See Nve. A.P. 1st. to 2nd 1927



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