

Rpt. 5e.

REPORT ON BOILERS.

No. 47061

Date of writing Report 22nd 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 20th Sept 1927
 Re. Book. 10019 on the Lochan Boiler 10521 M. V. Belmorla (Number of Visits 9) Gross Tons 150
 Master Built at Walker, Inc. By whom built Armstrong Whitworth & Co. Ltd. When built 1928
 Boilers made at Annan By whom made Cochran & Co. Annan Ltd. When made 1927
 Owners J. S. Rederick Belmorla 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 150 Working pressure 150 lb
 tested by hydraulic pressure to 275 lb Date of test 20/9/27 No. of Certificate 1583 Fire grate area 18.7 sq ft Description of safety valves 2
 No. of safety valves 2 Area of each 3.14 sq ft Pressure to which they are adjusted 150 lb If fitted with easing gear 7/16 If steam from main boilers can enter the donkey boiler 1/2 Diameter of donkey boiler 6'-0" Length 15'-9" Material of shell plates steel Thickness 19/32, 11/16, 19/32
 Range of tensile strength 28/32 Description of riveting long seams D.R. lap Diameter of rivet holes 3/32 Whether punched or drilled 10.170 Pitch of rivets 2.9107, 3.116, 2.854 Lap of plating 4 3/4 Per centage of strength of joint Rivets 66% Working pressure of shell by rules 150.5 lb 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 2.854 Working pressure of furnace by rules 144 lb Thickness of Ogee ring 1" Working pressure of Ogee ring by rules 155.8 lb Thickness of furnace crown plates 5/8 Radius of do. 2'-6 Stayed by Hemispherical Diameter of uptake 15" x 18" Thickness of uptake plates 9/16 Thickness of tube plates 15/16 Clean pitch of stay tubes in nest 1 1/4 x 10 1/16 Pitch in outer vertical rows 4 1/2
 Diameter of tube holes FRONT 2 1/16 BACK 2 1/2 Working pressure of tube plates by rules 152.9 lb Tubes: Material L.W. W. I.
 External diameter 2 1/2 Thickness 10 1/2 No. of threads per inch 9 Pitch of tubes 3 3/4 x 39/16
 Working pressure by rules 145 lb Manhole compensation: Size of opening in shell plate 12" x 16" Section of compensating ring 6" x 15/16 No. of rivets and diameter of rivet holes 36 @ 3/32 Outer row pitch at ends 3 3/4

The foregoing is a correct description.

COCHRAN & CO., ANNAN, LIMITED Manufacturer.

Dates of Survey while building 1927 Jun 24-28 July 8-12-29 Aug 9 Sep 2-13-20 Drawing No. 15773.
 During progress of work in shops
 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 and approved plan. Materials & workmanship good.

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

These 2 Donkey Boilers have been securely fitted on board. Steam raised and safety valves adjusted to 150 lbs per sq in.

C. H. March

Survey Fee ... £ 4 : 4 : 1

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. J. Nicholas

Engineer, Surveyor to Lloyd's Register of Shipping.

TUES. 13 MAR 1928



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