

Rpt. 5b.

GLASGOW REPORT No 45270.

## REPORT ON BOILERS.

No. 44561.

30 DEC 1925  
16 APR 1925

Date of writing Report 9 April 1925 When handed in at Local Office 10.4.1925 Port of Glasgow  
 No. in Survey held at Annan, Scotland Date, First Survey 30 January 1925 Last Survey 8 April 1925 19  
 Reg. Book. M/S "KING MALCOLM" (Number of Visits 7) Gross 5864  
 on the Cochran Boiler No 9555 for Harland & Wolff Ltd, Belfast for their No 692 M. Tons Net 3127  
 Master Built at GLASGOW By whom built D. W. HENDERSON & Co Ltd. When built 1925  
 Boilers made at Annan, Scotland By whom made Messrs Cochran & Co Annan Ltd. When made 1925  
 Owners BRITISH MOTORSHIP CO. LTD. Port belonging to LONDON.

**VERTICAL DONKEY BOILER**— No. One Description Cochran Type Manufacturers of steel D. Colville & Sons Ltd  
 Made at Annan By whom made Cochran & Co Annan Ltd When made 1925 Where fixed ENGINE ROOM Working pressure 100 lbs  
 tested by hydraulic pressure to 200 Date of test 8/4/25 No. of Certificate 6715 Fire grate area 1.5 ft Description of safety valves SPRING LOADED  
 No. of safety valves Two Area of each .76 sq Pressure to which they are adjusted 100 lbs/sq fitted with easing gear YES If steam from main boilers can  
 enter the donkey boiler Dia. of donkey boiler 3'-9" Length 10'-0" Material of shell plates Steel Thickness 3/8" 3/32" 1/2" Range of tensile  
 strength 28,325 Descrip. of riveting long. seams D.R. Lap Dia. of rivet holes 23/32 Whether punched or drilled drilled Pitch of rivets 2.292  
 Lap of plating 3 3/4 Per centage of strength of joint Rivets 74.7% Working pressure of shell by rules 142.5 lbs Thickness of shell crown plates 1/32  
 Plates 66.4% Radius of do. 3'-2" No. of Stays to do. none Dia. of stays Diameter of furnace Top 3'-0" Bottom 3'-3 1/8" Length of furnace 5'-10 1/2"  
 Thickness of furnace plates 1/2" 15/32 Description of joint S.R. Lap Working pressure of furnace by rules 119.2 lbs 159.5 lbs 144 lbs  
 plates 1/2 Radius of do. 23 Stays by Hemisphere Diameter of uptake 8 1/2" x 13 3/4" Thickness of uptake plates 1/2"  
 Thickness of water tubes plates FRONT. 2 1/32 BACK. 1/2"  
 The foregoing is a correct description.  
 FOR COCHRAN & CO., ANNAN, LTD.  
 Thomas Waller Manufacturer.

Dates of Survey while building During progress of work in shops - - 1925 Jan 30 Feb 13 20 Mar 12 26 Drawing No. 14094 TECHNICAL MANAGER  
 During erection on board vessel - - Apr 2-8  
 Total No. of visits 7  
 Is the approved plan of boiler forwarded herewith yes.

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

This boiler which has been built under Survey has been tested in my presence to 200 lbs per square inch by hydraulic pressure with satisfactory results. The materials were <sup>tested</sup> in accordance with the Society's Rules. The materials and workmanship are good.

The boiler is to the order of Messrs Harland and Wolff Ltd. Belfast for their No 692 M.

This boiler has now been fitted on board the above vessel in an efficient manner, examined under steam and safety valves adjusted to 100 lbs/sq Washers A 5/8" F 2 1/32".

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

MONTHLY ACCOUNT

Committee's Minute GLASGOW 15 APR 1925

Assigned TRANSMIT TO LONDON

J. Nicholas & H. M. Crinick.  
 Engineer Surveyors to Lloyd's Register of British and Foreign Shipping.

See G.S. Rpt. No. 45270

W184-0181

Lloyd's Register  
Foundation