

# REPORT ON BOILERS.

No. 44265

31 DEC 1924

15 JAN 1925

Received at London Office

Date of writing Report Dec 20<sup>th</sup> 1924 When handed in at Local Office 26. 12. 1924 Port of Glasgow.

No. in Survey held at Annan Date, First Survey and Last Survey 19 Dec 1924.

Reg. Book. 2642 on the Boiler No 9412 for Messrs Smith Hogg & Co. West Hartlepool for S/S. ALGARDA. Tons Gross 759 Net 404.

Master Built at Middlesbrough By whom built W. Harkness & Son. Ltd. When built 1904-8.

Boilers made at By whom made When made

Owners Smith Hogg & Co. Ltd. Port belonging to West Hartlepool.

**VERTICAL DONKEY BOILER**— No. One Description Cochran Patent Type Manufacturers of steel D. Colvile & Sons Ltd.  
Made at Annan By whom made Cochran & Co. Annan Ltd. When made 1924 Where fixed Stokely. Working pressure 100 lb/sq in.  
Tested by hydraulic pressure to 200 lb/sq in. Date of test 19/12/24 No. of Certificate 6684 Fire grate area 18.7 sq ft Description of safety valves 2 spring loaded.  
No. of safety valves 2 Area of each 3.14 sq ft Pressure to which they are adjusted 100 lb. If fitted with easing gear yes If steam from main boilers can  
enter the donkey boiler no Dia. of donkey boiler 6'-0" Length 10'-9" Material of shell plates Steel Thickness 7/16" & 1/2" Range of tensile  
strength 28-32 tons Descrip. of riveting long. seams D.R. Lap Dia. of rivet holes 25/32 Whether punched or drilled Drilled Pitch of rivets 2.634"  
Type of plating 3/8" Per centage of strength of joint Rivets 6837 Plates 6949 Working pressure of shell by rules 110 lb Thickness of shell crown plates 9/16"  
Diameter of do. 5'-0" No. of Stays to do. Dia. of stays Diameter of furnace Top Hemisphere Bottom 5'-0" Length of furnace 2'-7 3/16"  
Thickness of furnace plates 1/2" Description of joint Seamless & Ogee Ring Working pressure of furnace by rules 137.5 lb Thickness of furnace crown  
plates 1/2" Radius of do. 2'-6" Stayed by Hemisphere Diameter of uptake 13" x 19 1/2" Thickness of uptake plates 9/16"  
Thickness of water tubes Plates FRONT 13/16" BACK 13/16"  
The foregoing is a correct description.  
For COCHRAN & CO., ANNAN, LIMITED  
Thomas Waller. Manufacturer.

Dates During progress of work in shops - 1924 Dec 19  
Survey while building During erection on board vessel -  
Total No. of visits 1  
Drawing No 13896  
Is the approved plan of boiler forwarded herewith yes

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) This boiler, which has not been built under special survey, has been examined throughout and the scantlings checked and found in accordance with the plan, the materials have been tested by the Society's Surveyors and the marks on the plates verified with the certificate; the boiler has been tested by hydraulic pressure to 200 lb/sq in. with satisfactory results; workmanship good.

This boiler is to the order of Messrs Smith Hogg & Co. West Hartlepool for the S/S. "Algarde".

## Annual Survey Request.

This boiler has been properly fitted & secured on board the steamer "Alburn" (ex Algarde). Its safety valves have been adjusted under steam & tested for accumulation. In my opinion the vessel is eligible for the record of NDB in the Register Book.

P. Fitzgerald.

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

Committee's Minute  
Assigned  
GLASGOW 30 DEC 1924  
TRANSMIT TO LONDON

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

TUES. 20 JAN 1925

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Lloyd's Register  
Foundation  
W84-0163