

## REPORT ON BOILERS.

No. 325

Received at London Office

Date of writing Report 15<sup>th</sup> Oct. 1921 When handed in at Local Office 5<sup>th</sup> Nov. 1921. Port of Malmö.

No. in Survey held at Limhamn Date, First Survey 15<sup>th</sup> April 1921 Last Survey 8<sup>th</sup> October 1921.

Reg. Book. 39944 on the Steel h. "Waterway". (Number of Visits 4) Gross 761.75 Tons Net 452.73

Master ✓ Built at Limhamn By whom built Limhamns Skeppvarv When built 1921

Boilers made at Sunderland By whom made H. E. Marine Eng. Co. When made 1920

Owners Cory & Blundell Port belonging to Cardiff.

**VERTICAL DONKEY BOILER** No. 8340 Description *Bochran Patent vertical multitubular boiler* Manufacturers of steel Glasgow Iron & Steel Co. Ltd.

Made at Annan By whom made Cochran & Co., Annan Ltd. When made 1920 Where fixed Limhamn Working pressure 100 lbs

tested by hydraulic pressure to 200 Date of test 1920 No. of Certificate 19602 Fire grate area 18.7 sq. ft. Description of safety valves Spring loaded

No. of safety valves 2 Area of each 4.91 sq. ft. Pressure to which they are adjusted 100 lbs If fitted with easing gear yes If steam from main boilers can enter the donkey boiler no Dia. of donkey boiler 6' Length 10' 10" Material of shell plates steel Thickness 15-17 1/2" Range of tensile strength 28-32 tons

Descrip. of riveting long. seams *dbl. riv. laps* Dia. of rivet holes 27/32" Whether punched or drilled ✓ Pitch of rivets 2.77"-2.68"

Lap of plating 4 1/8" Per centage of strength of joint Rivets 72.8 Plates 68.5 Working pressure of shell by rules 107.3 lbs Thickness of shell crown plates 23/32"

Radius of do. 6' 5" No. of Stays to do. 4 *gunst.* Dia. of stay plates 9/16" Diameter of furnace Top Radius 30" Bottom 60" Length of furnace 40 1/16"

Agree Ring Plate = 13/16" Spherical Description of joint Riveted Ring Working pressure of furnace by rules 125 lbs per sq. in. Thickness of furnace crown plates 13" x 19 1/2"

plate 1/2" Radius of do. 2' 6" Stayed by *Spherophore* Diameter of uptake elliptical Thickness of uptake plates 9/16"

Thickness of water tubes plates Front = 25/32" Back = 21/32"

The foregoing is a correct description,  
**FOR COCHRAN & CO., ANNAN, LTD.** Manufacturer.

Dates { During progress of work in shops - 15/4 21  
 of Survey { During erection on board vessel - 21/7, 11/8, 8/10 1921  
 while building { Total No. of visits 4

Is the approved plan of boiler forwarded herewith *yes***GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.)

This donkey boiler has been built under the supervision of the Surveyors to the Bureau Veritas. The scantlings of the boiler have been compared with the approved plan by the undersigned. Workmanship - good as far as can be seen.  
 Boiler pressure 100 lbs.

Survey Fee ... £ 76:44 When applied for, 15/10 1921  
 Travelling Expenses (if any) £ : : When received, 27/10 1921

Committee's Minute

FRI. NOV. 18 1921

Assigned

FRI. 2 DEC. 1921

TUE. 30 MAY. 1922

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register  
Foundation

005280-005292-0205