

## REPORT ON BOILERS.

No. 7427

Date of writing Report **10 JAN 1948** When handed in at Local Office **10 JAN 1948** Port of **GLASGOW.** Received at London Office **15 JAN 1948**

No. in Survey held at **1** Date, First Survey **16.8.47** Last Survey **18.12.47** Gross **1318**  
 Reg. Book **FS 417.** **M/V "BERGSUND"** (Number of Visits **12**) Tons Net

Yard No. **417** Built at **ANNAN.** By whom built **FURNESS S.B. CO. LTD.** When built

Boilers made at **ANNAN.** By whom made **COCHRAN & CO. ANNAN LTD.** Boiler No. **17090** When made

Owners **Stockholm Rederi a/s Svea.** Port belonging to **Stockholm.**

**VERTICAL DONKEY BOILER** No. **One** Description **Cochran** Manufacturers of steel **Colville's Ltd.**

Made at **Ann an** By whom made **Cochran & Co., Ann an, Ltd.** When made **1947** Where fixed **✓** Working pressure **105 lb/sq. in.**

tested by hydraulic pressure to **208** Date of test **18/12/47** No. of Certificate **22569** Fire grate area **0.5** Description of safety valves **Double spring**

No. of safety valves **2** Area of each **1.76** Pressure to which they are adjusted **105 lb/sq. in.** If fitted with easing gear **Yes** If steam from main boilers can enter the donkey boiler **✓**

Diameter of donkey boiler **4'-0"** Length **10'-6"** Material of shell plates **S** Thickness **3/8" & 7/16"**

Range of tensile strength **28/32 tons** Description of riveting long. seams **D.R. LAP** Diameter of rivet holes **23/32"** Whether punched or drilled **drilled** Pitch of rivets **2.26" 2.34" & 2.41"** Lap of plates **3 3/4"** Per centage of strength of joint **68.3** Working pressure of shell by rules **137.4 lb/sq. in.** Thickness of shell/crown plates **3/4"** Radius of do. **4'-0"** No. of stays to do. **None** Diameter of stays **7/16"** Diameter of furnace **3'-4 1/2"** Bottom **3'-6 3/8"** Length of furnace **20"** Thickness of furnace side plates **1/2"** Description of joint **seamless** Working pressure of furnace by rules **156.9 lb/sq. in.** Thickness of Ogee ring **1/2"** Working pressure of Ogee ring by rules **116.6 lb/sq. in.** Thickness of furnace crown plates **1/2"** Radius of do. **23"** Stayed by **Hemisphere** Diameter of uptake **13 3/4" x 9 3/4"** Thickness of uptake plates **1/2"** Thickness of tube plates **17/32"** Mean pitch of stay tubes in nest **As Appd.** Pitch in outer vertical rows **7 1/2"**

Diameter of tube holes **FRONT 2.11/16" BACK 2.9/16"** Working pressure of tube plates by rules **F115.4 B122.8** Tubes: Material **Steel**

External diameter **2 1/2"** Thickness **11/32"** No. of threads per inch **9** Pitch of Tubes **3 3/4" x 3 3/4"**

Working pressure by rules **175 lb/sq. in.** Manhole compensation; Size of opening in shell plate **12" x 16"** Section of compensating ring **flanged 3"** No. of rivets and diameter of rivet holes **-** Outer row pitch at ends **-**

The foregoing is a correct description.

FOR COCHRAN &amp; CO. ANNAN LTD. Manufacturer.

Dates of Survey while building

During progress of work in shops - -

During erection on board vessel - -

Total No. of Visits **12**

Surveyor on regular attendance  
 minimum four visits

Drawing No. 32905.

Is the approved plan of boiler forwarded herewith **No.**

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

This boiler has been despatched to Haverton Hill for installation.

This boiler has been constructed under Special Survey and in accordance with the approved plan.

The materials and workmanship are good.

This boiler has now been securely fitted on board & tried out under working conditions & found satisfactory.

On completion the SVs were adjusted under steam to 105 lbs/sq.

L. Homan Stuart

Survey Fee ... £ 10 : - : -

Travelling Expenses (if any) £ : : :

MONTHLY ACCOUNT

When applied for ... 19

When received ... 19

Committee's Minute

GLASGOW

13 JAN 1948

FRI. 30 JUL 1948

Assigned

Deferred for completion

Engineer Surveyor to Lloyd's Register of Shipping.

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