

7 MAR 1947

REPORT ON BOILERS.

No. 71525

Date of writing Report 3 3 47 When handed in at Local Office 2 3 47

Received at London Office

5 MAR 1947

Port of GLASGOW.

No. in Survey held at ANNAN

Date, First Survey 30. 8. 46

Last Survey 21. 2. 47

19 47

Reg. Book

on the

Yard No.

381

Built at PORT GLASGOW

By whom built FERGUSON BROS LTD.

When built 1948

Boilers made at ANNAN

By whom made Cochran & Co.

Boiler No. 16989

When made

1947

Owners CORPORATION OF TRINITY HOUSE

Port belonging to

LONDON

VERTICAL DONKEY BOILER— No. one Description Cochran Manufacturers of steel Colvilles Ltd.,

Made at Annan By whom made Cochran & Co. Annan Ltd. When made 1947 Where fixed oil fired Working pressure 100

tested by hydraulic pressure to 208 lbs/sq. in. Date of test 21. 2. 47 No. of Certificate 22353 Fire grate area Description of safety valves double spring

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

Diameter of donkey boiler 3'9" Length 10'0" Material of shell plates S Thickness 3/8" and 13/32"

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 2.29", 2.23" and 2.25" Lap of plating 3 3/4" Per centage of strength of joint 68.1

rules 146.1 lbs/sq. in. Thickness of shell crown plates 3/4" Radius of do. 3'9" No. of stays to do. none Diameter of stays - Diameter of furnace—Top - Bottom 3'3 1/2" Length of furnace 8 1/2" Thickness of furnace side plates 1/2" Description of joint E. welded

pressure of furnace by rules 183.7 lbs/sq. in. Thickness of Ogee ring 1/2" Working pressure of Ogee ring by rules 121.7 lbs/sq. in. Thickness of furnace crown plates 1/2" Radius of do. 19" Stayed by hemisphere Diameter of uptake 8 1/2" x 13 1/2" Thickness of uptake plates 1/2" Thickness of tube plates front 11/16" back 17/32"

Diameter of tube holes FRONT 2.11/16" BACK 2.9/16" Working pressure of tube plates by rules B. 111.6 lbs/sq. in. Tubes: Material steel

External diameter 2 1/2" Thickness 11/32" No. of threads per inch 9 Pitch of Tubes 3 1/2" x 3.9/16"

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

The foregoing is a correct description,

T. A. R. S.

Manufacturer.

FOR COCHRAN & CO. ANNAN, LTD.

Dates of Survey while building

During progress of work in shops -

During erection on board vessel -

Total No. of Visits 19

Drawing No. 32281

Is the approved plan of boiler forwarded herewith Yes

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

The boiler has been constructed under Special Survey in accordance with the approved plan, and the materials and workmanship are good.

The boiler has been sent to Port Glasgow for installation.

This boiler has been efficiently installed in the vessel & its safety valves adjusted under steam 35 lbs/sq. in. accumulation test satisfactory.

Charles J. Hume

Survey Fee ... £ 6 : 0 : 0

When applied for 4000/11/19

Travelling Expenses (if any) £ : :

When received 19

Committee's Minute

Assigned

Kept for completion

GLASGOW

GLASGOW 4 MAR 1947

3 FEB 1948

Engineer Surveyor to Lloyd's Register of Shipping.

007731-007738-0266