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# REPORT ON WATER TUBE BOILERS.

No. 69307

15 FEB 1945

Received at London Office

Port of **GLASGOW** 21 JUN 1945

When handed in at Local Office **10.2.1945** Date, First Survey **16.6.43** Last Survey **1st Feb., 1945**

Survey held at **RENFREW** on the **TW. SC. TRANSPORT FERRY J. 11723** (Number of Visits **20**)

By whom built **MESSRS. FAIRFIELD SHIPBUILDING & ENGINEERING CO. LTD.** When built **1945**

By whom made **BABCOCK & WILCOX, Ltd. 10/1630 No. 12** When made **1945**

Owners **THE ADMIRALTY** Port belonging to

**WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.**—Manufacturers of Steel **Colvilles Ltd.,**

Boilers **1-Three Drum Small Tube Type** Working Pressure **225 lb.** Tested by Hydraulic Pressure to **387 lb.** Date of Test **16.2.44.**

Can each boiler be worked separately **Yes** Total Heating Surface of Boilers **5325 sq.ft.**

Area of fire grate (coal) in each Boiler **4 Admiralty Type**

Area of each set of valve **25.12 sq.in.** Pressure to which they are adjusted **225 lb.**

Height of boiler **10' 1 1/2"** Width and Length **11' 10 1/2" Width 11' 9 9/16" Length**

Number in each boiler **One** Inside diameter **4' 2"** Thickness of plates **5/8" & 1 1/2"**

Are drum shell plates welded or flanged **No** Description of riveting:—

Diameter of rivet holes in long. seams **29/32"** Pitch of rivets **3.4516"**

Percentage strength of long. joint:—Plate **73.74** Rivet **88.06**

Pitch of tube holes **1 1/2", 1.11/16"** Percentage strength of shell in way of tubes **32.3**

Range of tensile strength **26/30 tons** Thickness of plates **1.3/16" F 1" A**

Working pressure by rules **app. 225 lb.** Water Drum Heads or Ends:—Range of tensile strength

Radius or how stayed **23"** Headers or Sections:—Number

Material **Seamless Forged** Thickness **1 1/2"** Tested by Hydraulic Pressure to

Number **364 @ 1 1/2"** Steam Dome or Collector:—Description of Joint to Shell

Range of tensile strength

Diameter of rivet holes **1", 1 1/8", 1 1/2"** Pitch of rivets

Lap of plate or width of

Thickness of straps **1 1/2"** Percentage strength of long. Joint

Plate Rivet

Working Pressure of shell by rules **Crown or End Plates:—Range of tensile strength**

Radius or how stayed **Working pressure by rules**

Size of manhole or handhole

Number, diameter, and thickness of tubes **Tested by Hydraulic Pressure to**

Is a safety valve fitted to each section of the superheater which can be shut off from the boiler

Area of each set of valves

Is easing gear fitted

Has the spare gear required by the rules been supplied

The foregoing is a correct description,

*[Signature]*

Manufacturer.

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

Total No. of visits **20**

Is this boiler a duplicate of a previous case **Yes.** If so, state vessel's name and report No. **Glasgow Report No. 68702.**

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) **This boiler has been built under Special Survey in accordance with the Rules and approved plans, and also in accordance with Admiralty Statement requirements and as otherwise modified and approved by the Admiralty, and the materials and workmanship are good. It has been sent to the Shipbuilders for installation in the vessel,**

Survey Fee ... £ **22 : 10** : } When applied for, **13 FEB 1945**  
Travelling Expenses (if any) £ : : } When received, **19**  
Specification **22 10**

ADMIRALTY  
A/C rendered from  
London 19/2/45

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 13 FEB 1945**  
Assigned referred for completion **19 JUN 1945**

