

# REPORT ON BOILERS.

No. 41109

Received at London Office

WED. 18 MAY. 1921

of writing Report **6.5.1921** When handed in at Local Office **6.5.1921** Port of **Glasgow**

Survey held at **Glasgow** Date, First Survey **12.1.1920** Last Survey **5.5.1921**

Book. **Boiler 90 B 126** **s/s Drake** (Number of Visits **18**) Tons } Gross **1597**  
Net **794**

ster Built at **Troon** By whom built **Cuba Stalco 90** When built **1922**

ines made at **Troon** By whom made **Cuba Stalco Eng 870 108** When made **1922**

ilers made at **Glasgow** By whom made **Dunsmuir & Co 100 1326** When made **1921**

gistered Horse Power \_\_\_\_\_ Owners \_\_\_\_\_ Port belonging to \_\_\_\_\_

MULTITUBULAR BOILERS—MAIN, ~~SECONDARY OR DONKEY~~—Manufacturers of Steel **Bobill, Steel Co of Scotland James Dunlop.**

etter for record **S** Total Heating Surface of Boilers **4516 sq ft** Is forced draft fitted **90** No. and Description of Boilers **Two Single Ended** Working Pressure **180** Tested by hydraulic pressure to **360** Date of test **5.5.21**

o. of Certificate **15876** Can each boiler be worked separately \_\_\_\_\_ Area of fire grate in each boiler **63 1/4** No. and Description of Safety valves to each boiler \_\_\_\_\_ Area of each valve \_\_\_\_\_ Pressure to which they are adjusted \_\_\_\_\_

re they fitted with easing gear \_\_\_\_\_ In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler \_\_\_\_\_

allest distance between boilers or uptakes and bunkers or woodwork \_\_\_\_\_ Mean dia. of boilers **15'-3"** Length **11'-6"**

aterial of shell plates **S** Thickness **17/32** Range of tensile strength **28/32** Are the shell plates welded or flanged **90**

Descrip. of riveting: cir. seams **DR.** long. seams **TRIDBS** Diameter of rivet holes in long. seams **19/32** Pitch of rivets **9"**

width of butt straps **19 3/8"** Per centages of strength of longitudinal joint rivets **87.25** Working pressure of shell by rules **181** Size of manhole in shell **16 x 12** Size of compensating ring **36 1/2 x 30 1/2 x 17/32** No. and Description of Furnaces in each boiler **3 Corrugated** Material **S** Outside diameter **49 1/2** Length of plain part top \_\_\_\_\_ bottom \_\_\_\_\_ Thickness of plates crown } **17/32** bottom }

Description of longitudinal joint **weld** No. of strengthening rings \_\_\_\_\_ Working pressure of furnace by the rules **181** Combustion chamber plates: Material **S** Thickness: Sides **5/8** Back **11/16** Top **5/8** Bottom **29/32** Pitch of stays to ditto: Sides **9 1/8** Back **9 1/2 x 9 1/4**

Top **8 3/4 x 8 1/2** If stays are fitted with nuts or riveted heads **outs** Working pressure by rules **188** Material of stays **S** Area at smallest part **1.69** Area supported by each stay **87.7** Working pressure by rules **186** End plates in steam space: Material **S** Thickness **17/32**

Pitch of stays **20 3/4 x 17** How are stays secured **DN.** Working pressure by rules **185** Material of stays **S** Area at smallest part **6.32**

Area supported by each stay **352.75** Working pressure by rules **183** Material of Front plates at bottom **S** Thickness **11/32** Material of Lower back plate **S** Thickness **29/32** Greatest pitch of stays **15 x 9 1/4** Working pressure of plate by rules **219** Diameter of tubes **3 1/2**

Pitch of tubes **4 3/4 x 4 1/16** Material of tube plates **S** Thickness: Front **11/32** Back **27/32** Mean pitch of stays **11 3/4** Pitch across wide water spaces **14 1/2** Working pressures by rules **183** Girders to Chamber tops: Material **S** Depth and thickness of girder at centre **9 x 2** Length as per rule **34 1/16** Distance apart **8 3/4** Number and pitch of Stays in each **3 at 8 1/2**

Working pressure by rules **187** Steam dome: description of joint to shell \_\_\_\_\_ % of strength of joint \_\_\_\_\_

Diameter \_\_\_\_\_ Thickness of shell plates \_\_\_\_\_ Material \_\_\_\_\_ Description of longitudinal joint \_\_\_\_\_ Diam. of rivet holes \_\_\_\_\_

Pitch of rivets \_\_\_\_\_ Working pressure of shell by rules \_\_\_\_\_ Crown plates \_\_\_\_\_ Thickness \_\_\_\_\_ How stayed \_\_\_\_\_

SUPERHEATER. Type \_\_\_\_\_ Date of Approval of Plan \_\_\_\_\_ Tested by Hydraulic Pressure to \_\_\_\_\_

Date of Test \_\_\_\_\_ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler \_\_\_\_\_

Diameter of Safety Valve **2** Pressure to which each is adjusted \_\_\_\_\_ Is Easing Gear fitted \_\_\_\_\_

Survey required **YORK**

No. **2310** attached attached **39903**

The foregoing is a correct description, **James Dunlop** Manufacturer.

Dates of Survey } During progress of 1920 Jan 12 Mar 29 Apr 29 May 3 Sep 17 Oct 6 Nov 22 Dec 20  
while building } During erection on board vessel - - - }  
Is the approved plan of boiler forwarded herewith \_\_\_\_\_

Total No. of visits **18**

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **These Boilers have been built under special survey in accordance with the approved plans & the workmanship & material are of good quality. These Boilers have been shipped to Troon at which port they will be fitted on board (Duplicate of No. B 124 of Reg. No. 39903)**

Survey Fee ... £ **27** : 11 : \_\_\_\_\_ When applied for, **16/57** 19 **21**.

Travelling Expenses (if any) £ : : \_\_\_\_\_ When received, **20/57** 19 **21**.

**These boilers securely fitted on board and tried under steam with satisfactory results.** D.C. Barre 2-22

**W. Gordon-Mitchell**  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW. 17 MAY 1921**

Assigned **TRANSMIT TO LONDON**

**Lloyd's Register Foundation**

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