

# REPORT ON BOILERS.

No. 41359.

Received at London Office

W.F.U. 14 SEP. 1921

Date of writing Report 16<sup>th</sup> Sep 21 When handed in at Local Office 10<sup>th</sup> Sep 1921 Port of Glasgow  
 No. in Survey held at Glasgow Date, First Survey 12.5.1920 Last Survey 8.9.1921  
 Reg. Book. Manual Boilers No 1700/1 7<sup>th</sup> Kyamite (Number of Visits 17) Gross Tons 643  
 on the Manual Boilers No 1700/1 7<sup>th</sup> Kyamite Net Tons 266  
 Master Glasgow Built at Glasgow By whom built Yarrow & Co. 1461 When built 1922  
 Engines made at Glasgow By whom made Yarrow & Co. 1461 When made 1921  
 Boilers made at Glasgow By whom made South Slapbyr Eng Coy When made 1921  
 Registered Horse Power \_\_\_\_\_ Owners William Robertson Port belonging to Glasgow

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

(Letter for record 5) Total Heating Surface of Boilers 2140 sq ft Is forced draft fitted No No. and Description of Boilers No Single Ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 8/9/21

No. of Certificate 15893 Can each boiler be worked separately Yes Area of fire grate in each boiler 337 sq ft No. and Description of safety valves to each boiler Double Spring loaded Area of each valve 3.946 sq in Pressure to which they are adjusted 185 lb/10"

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

Smallest distance between boilers or uptakes and bunkers or woodwork 4'-0" Mean dia. of boilers 11'-0" Length 10'-0"

Material of shell plates Steel Thickness 27/32 Range of tensile strength 25/32 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams Lap & R long. seams Stitch Riv Diameter of rivet holes in long. seams 1" Pitch of rivets 7 7/16

width of butt straps 15" Per centages of strength of longitudinal joint rivets 86.6 Working pressure of shell by rules 189 Size of manhole in shell 16" x 12" Size of compensating ring 2'-7" x 2'-3" x 27/32 No. and Description of Furnaces in each boiler No

Description of longitudinal joint held No. of strengthening rings 1 Working pressure of furnace by the rules 189 Combustion chamber plates: Material Steel Thickness: Sides 27/32 Back 5/8 Top 27/32 Bottom 27/32 Pitch of stays to ditto: Sides 8" x 8 1/2" Back 9" x 8 1/2"

Top 8" x 8 1/2" If stays are fitted with nuts or riveted heads Stubs Working pressure by rules 185 Material of stays Steel Area at smallest part 1.75 sq in Area supported by each stay 7.8 sq in Working pressure by rules 190 End plates in steam space: Material Steel Thickness 15/16

Pitch of stays 15" x 11 1/2" How are stays secured Stubs Working pressure by rules 190 Material of stays Steel Area at smallest part 3.85 sq in

Area supported by each stay 2.15 sq in Working pressure by rules 185 Material of Front plates at bottom Steel Thickness 7/16 Material of Lower back plate Steel Thickness 7/8 Greatest pitch of stays 1 1/2" x 8 1/2" Working pressure of plate by rules 260 Diameter of tubes 3 1/2"

Pitch of tubes 17/32" x 1 1/2" Material of tube plates Steel Thickness: Front 13/16 Back 27/32 Mean pitch of stays 11 1/2" Pitch across wide water spaces 4 1/2" Working pressures by rules 1 1/2" boiler 216 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6 1/2" x 3 1/2" x 2" Length as per rule 25 lbs Distance apart 8" Number and pitch of Stays in each two at 8 1/2"

Working pressure by rules 200 Steam dome: description of joint to shell none % 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 \_\_\_\_\_

UPERHEATER. Type none 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 \_\_\_\_\_ Pressure to which each is adjusted \_\_\_\_\_ Is Easing Gear fitted No

The foregoing is a correct description, FOR THE FORTH SHIPBUILDING & ENGINEERING CO., LTD. (LINDSAY BURNETT'S BOILER WORKS) McLair Couper Manufacturer.

Survey request form: No. 2547 attached Is the approved plan of boiler forwarded herewith Yes

Dates of Survey: During progress of work in shops: 1920 May 12-25, Jun 9, Aug 25 (1921) Mar 24, May 5-11, 24, Jun 1, 7-21. Is the approved plan of boiler forwarded herewith Yes

while building: During erection on board vessel: \_\_\_\_\_ Total No. of visits 17

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

These boilers have been built under special survey.

The workmanship and materials are of good quality.

The boilers will be fitted on board at Glasgow.

3/12/21. These boilers have been well fitted and secured on board and their safety valves adjusted under steam as above. S.F. Dorey.

Survey Fee ... £ 14: 6: - When applied for, 13.9.21

Travelling Expenses (if any) £ \_\_\_\_\_ When received, 10.11.21

Committee's Minute \_\_\_\_\_ Assigned \_\_\_\_\_

Shipping. \_\_\_\_\_

GLASGOW 13 SEP 1921  
TRANSMIT TO LONDON

GLASGOW 10 JAN 1922  
See Lib. Rpt. 41594

Robert Gregor  
Engineer Surveyor to Lloyd's Register of Shipping.

