

Rpt. 5a.

Continuation REPORT ON BOILERS.

No. 3939W

Received at London Office

Date of writing Report 1919 When handed in at Local Office 1919 Port of Glasgow WED. DEC. 10, 1919

No. in Survey held at Glasgow Date, First Survey Last Survey 1919

Req. Book. T.S.S. WOODARRA (Number of Visits) Tons } Gross } Net

Master Built at Glasgow By whom built Barclay Curle & Co. Ltd. When built 1919

Engines made at Glasgow By whom made Do. When made 1919

Boilers made at Do. By whom made Do. When made 1919

Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *Barclay Curle & Co. Ltd.*

(Letter for record *S*) Total Heating Surface of Boilers *6036 1/4* Is forced draft fitted *Yes* No. and Description of Boilers *Two Single ended* Working Pressure *200* Tested by hydraulic pressure to *350* Date of test *21.8.19*

No. of Certificates *14851* Can each boiler be worked separately *Yes* Area of fire grate in each boiler *73.3 1/4* No. and Description of safety valves to each boiler *2 Spring loaded* Area of each valve *9.62 1/2* Pressure to which they are adjusted *196 lb*

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

Smallest distance between boilers or uptakes and bunkers or woodwork — Mean dia. of boilers *16-3* Length *11-9*

Material of shell plates *Steel* Thickness *1 15/32* Range of tensile strength *28/32 tons* Are the shell plates welded or flanged *No*

Descrip. of riveting: cir. seams *up 10* long. seams *T.R.D.B.S* Diameter of rivet holes in long. seams *1 1/2* Pitch of rivets *10 1/2*

Lap of plates or width of butt straps *22 1/8* Per centages of strength of longitudinal joint *85.2* Working pressure of shell by rules *207* Size of manhole in shell *16 x 12* Size of compensating ring *35 1/2 x 28 1/2 x 1 15/32* No. and Description of Furnaces in each boiler *4 Houghton* Material *Steel* Outside diameter *3-8 1/4* Length of plain part *top - bottom -* Thickness of plates *19 - 32*

Description of longitudinal joint *weld* No. of strengthening rings — Working pressure of furnace by the rules *213* Combustion chamber plates: Material *Steel* Thickness: Sides *11/16* Back *21/32* Top *11/16* Bottom *11/16* Pitch of stays to ditto: Sides *8 1/2 x 9 1/2* Back *8 1/2 x 9 1/2*

Top *8 1/2 x 8 1/2* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *221* Material of stays *Steel* Area at smallest part *207* Area supported by each stay *77 1/8* Working pressure by rules *241* End plates in steam space: Material *Steel* Thickness *1 15/32*

Pitch of stays *22* How are stays secured *No* Working pressure by rules *200* Material of stays *Steel* Area at smallest part *9.62*

Area supported by each stay *784* Working pressure by rules *206* Material of Front plates at bottom *Steel* Thickness *1* Material of Lower back plate *Steel* Thickness *7/8* Greatest pitch of stays *14* Working pressure of plate by rules *203* Diameter of tubes *2 1/2*

Pitch of tubes *3 1/4 x 3 5/8* Material of tube plates *Steel* Thickness: Front *1 1/4* Back *29/32* Mean pitch of stays *9 1/4* Pitch across wide water spaces *13 1/2* Working pressures by rules *203* Girders to Chamber tops: Material *Steel* Depth and thickness of girder at centre *8 x 1 (2)* Length as per rule *2-8 7/16* Distance apart *8 1/2* Number and pitch of Stays in each *(3) 8 1/2*

Working pressure by rules *204* 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

The foregoing is a correct description,
FOR BARCLAY, CURLE & CO., LTD. Manufacturer.

John Alexander Manager
Is the approved plan of boiler forwarded herewith *No*

Dates of Survey } During progress of work in shops - - }
while building } During erection on board vessel - - - }
See accompanying machinery Report.

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

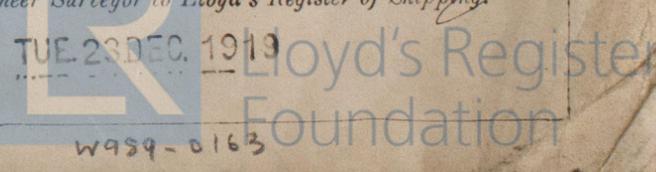
These boilers have been built under special Survey materials and workmanship are good

Survey Fee £ *See Machinery Report* When applied for, 1919
Travelling Expenses (if any) £ When received, 1919

Committee's Minute *GLASGOW 9-DEC-1919*

Assigned *See attached machinery report.*

as Easthope Engineer Surveyor to Lloyd's Register of Shipping.



W489-0163