

REPORT ON BOILERS.

No. 40489

Received at London Office WED. OCT. 20 1920

Date of writing Report 18. 10. 1920 When handed in at Local Office 18. 10. 1920 Port of Glasgow

No. in Survey held at Renfrew Date, First Survey 17. 5. 1920 Last Survey 4. 10. 1920

Reg. Book. S. S. Graymount (Number of Visits 8) Gross Tons Net

Master Built at Luth By whom built Cran & Somerville When built

Engines made at Luth By whom made Cran & Somerville (No 338) When made 1921

Boilers made at Renfrew By whom made Wm Simons & Co Ltd (647 B) When made 1920

Registered Horse Power Owners Daniel Gray Port belonging to Belfast

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel L. Colville & Son

(Letter for record (S) Total Heating Surface of Boilers 1168 ✓ Is forced draft fitted No. No. and Description of

Boilers 1 Single ended Working Pressure 130 ✓ Tested by hydraulic pressure to 260 Date of test 4/10/20

No. of Certificate 15515 Can each boiler be worked separately ✓ Area of fire grate in each boiler 44 ✓ No. and Description of

safety valves to each boiler ✓ Area of each valve Pressure to which they are adjusted ✓

Are they fitted with easing gear ✓ 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 12-0 Length 10-0

Material of shell plates Steel Thickness $\frac{3}{4}$ ✓ Range of tensile strength 28-32 ✓ Are the shell plates welded or flanged NoDescrip. of riveting: cir. seams double lap long. seams little butt Diameter of rivet holes in long. seams $\frac{13}{16}$ ✓ Pitch of rivets $5\frac{3}{8}$ ✓Lap of plates or width of butt straps $12\frac{1}{4}$ ✓ Per centages of strength of longitudinal joint rivets 86-0 Working pressure of shell by rules 132 Size of manhole in shell 16×12 ✓ Size of compensating ring $28 \times 24 \times 1$ ✓ No. and Description of Furnaces in eachboiler 2 plain ✓ Material steel ✓ Outside diameter 3-9 $\frac{3}{16}$ ✓ Length of plain part top 6-2 ✓ Thickness of plates crown 31 ✓ bottom 32 ✓

Description of longitudinal joint welded No. of strengthening rings 1 part ✓ Working pressure of furnace by the rules 139 Combustion chamber

plates: Material steel Thickness: Sides $\frac{9}{16}$ ✓ Back $\frac{9}{16}$ ✓ Top $\frac{9}{16}$ ✓ Bottom $\frac{11}{16}$ ✓ Pitch of stays to ditto: Sides 9×9 ✓ Back 9×9 ✓Top 9×9 ✓ If stays are fitted with nuts or riveted heads Nuts ✓ Working pressure by rules 130 Material of stays Steel Area atsmallest part $1 \times 4\frac{5}{8}$ ✓ Area supported by each stay 8×1 ✓ Working pressure by rules 143 End plates in steam space: Material Steel Thickness $\frac{15}{16}$ ✓Pitch of stays $17 \times 16\frac{3}{4}$ ✓ How are stays secured 2 nuts ✓ Working pressure by rules 139 Material of stays Steel Area at smallest part 4×11 ✓Area supported by each stay 28×4 ✓ Working pressure by rules 137 Material of Front plates at bottom Steel Thickness $\frac{11}{16}$ ✓ Material ofLower back plate Steel Thickness $\frac{11}{16}$ ✓ Greatest pitch of stays 13×1 ✓ Working pressure of plate by rules 131 Diameter of tubes $3\frac{1}{4}$ ✓Pitch of tubes $4\frac{1}{2} \times 4\frac{3}{8}$ ✓ Material of tube plates Steel Thickness: Front $\frac{11}{16}$ ✓ Back $\frac{11}{16}$ ✓ Mean pitch of stays 9×9 ✓ Pitch across widewater spaces $14\frac{1}{2}$ with $5\frac{3}{8}$ ✓ Working pressures by rules 164 ✓ Girders to Chamber tops: Material Steel Depth and thickness ofgirder at centre $7 \times \frac{11}{16}$ double ✓ Length as per rule $28\frac{3}{4}$ ✓ Distance apart 9×1 ✓ Number and pitch of Stays in each 12×9 ✓

Working pressure by rules 140 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

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 Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description,

Wm. SIMONS & CO., LTD.

James Dinning

Manufacturer.

Dates of Survey During progress of 1920 May 17 Jun 3, 16-28 Aug 5-18 Sep 28 Oct 4

while building During erection on board vessel - - -

Is the approved plan of boiler forwarded herewith 50647A

Total No. of visits 8

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

This boiler has been built under special survey. The materials and workmanship are of good description. It has now been forwarded to Luth where it will be fitted on board the vessel.

Survey Fee ... £ 3 : 18 : 0

When applied for, 19 OCT 1920

Travelling Expenses (if any) £ :

When received, 29 Oct 1920

1920

Committee's Minute GLASGOW 19 OCT 1920

TUE. NOV. 11 1921

Assigned

TRANSMIT TO LONDON

W289-0153

A. W. McKeand 2020

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation