

REPORT ON BOILERS.

No. 75487

Received at London Office FRI. 4 MAY. 1922

Date of writing Report April 24th 1922 When handed in at Local Office April 24th 1922 Port of NEWCASTLE ON TYNE

No. in Survey held at Wallsend-on-Tyne Date, First Survey April 15th 1919 Last Survey April 21st 1922

Reg. Book. 1646 on the Steel Twin Screw Steamer Laonia (Number of Vials 200) Gross 17677.53 Tons Net 11827.42

Master - Built at Wallsend By whom built Swan Hunter & Wigham & Richardson When built 1922

Engines made at Wallsend By whom made The Wallsend Slipway & Engineering Co. Ltd. When made 1922

Boilers made at Wallsend By whom made The Wallsend Slipway & Engineering Co. Ltd. When made 1922

Registered Horse Power 1561 Owners Cunard Co Port belonging to Liverpool

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

Letter for record A. Total Heating Surface of Boiler 10101 sq ft Is forced draft fitted Yes No. and Description of Boilers 3 Single ended Multitubular Working Pressure 220 Tested by hydraulic pressure to 285 Date of test 4.6.22

No. of Certificate 9413 Can each boiler be worked separately Yes Area of fire grate in each boiler 83 sq ft No. and Description of safety valves to each boiler 2 Spring loaded Area of each valve 9.620 Pressure to which they are adjusted 225 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 14.6 Length 11.6

Material of shell plates steel Thickness 1 3/32 Range of tensile strength 50 to 54 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams 3 Lip long. seams 8 with 1/2 pitch Diameter of rivet holes in long. seams 1 1/32 Pitch of rivets 10 1/2

Top of plates or width of butt straps 24 Per centages of strength of longitudinal joint rivets 88.4 plate 84.2 Working pressure of shell by rules 229.5 Size of manhole in shell 16 x 12 Size of compensating ring 12 x 12 No. and Description of Furnaces in each boiler 4 Horizontal Material steel Outside diameter 48 1/8 Length of plain part 11 Thickness of plates crown 1 1/16 bottom 1 1/16

Description of longitudinal joint welded No. of strengthening rings Working pressure of furnace by the rules 220 Combustion chamber plates: Material steel Thickness: Sides 3/32 Back 1/16 Top 3/32 Bottom 1/16 Pitch of stays to ditto: Sides 8 1/2 x 8 Back 9 x 8

Top 8 1/2 x 7 1/2 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 229.5 Material of stays Iron Area at smallest part 2.035 Area supported by each stay 7.67 Working pressure by rules 220 End plates in steam space: Material steel Thickness 1 3/16

Pitch of stays 2 1/2 x 17 How are stays secured Nuts Working pressure by rules 220 Material of stays steel Area at smallest part 7.67

Area supported by each stay 365.0 Working pressure by rules 220 Material of Front plates at bottom steel Thickness 1 Material of Lower back plate steel Thickness 1/16 Greatest pitch of stays 15 1/2 x 9 Working pressure of plate by rules 350 Diameter of tubes 3 1/4

Pitch of tubes 4 x 4 Material of tube plates steel Thickness: Front 1 1/16 Back 1/16 Mean pitch of stays 8 Pitch across wide water spaces 15 1/2 x 8 Working pressures by rules 220 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 8 1/2 x 1 1/2 Length as per rule 30 1/8 Distance apart 8 1/2 Number and pitch of Stays in each 3-4 1/8

Working pressure by rules 234 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 Schmidt Date of Approval of Plan Tested by Hydraulic Pressure to 440 lbs

Date of Test 27th July 1920 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes

Diameter of Safety Valve 2 Pressure to which each is adjusted 220 Is Easing Gear fitted Yes

FOR THE WALLSEND SLIPWAY & ENGINEERING CO. LIMITED.

The foregoing is a correct description,

Manufacturer.

Dates of Survey During progress of work in shops - - -

while building During erection on board vessel - - -

See other report

Is the approved plan of boiler forwarded herewith Yes

Total No. of visits See other report

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

These boilers have been surveyed during construction, & the materials & workmanship are good, and in accordance with the rules' requirements & the approved plan.

Survey Fee ... £ ... When applied for, 19

Travelling Expenses (if any) £ ... When received, 19

FRI. 23 JUN. 1922

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned



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