

COPY. REPORT ON BOILERS.

No. **74,297**

Received at London Office

TUE. APR. 22 1924

Date of writing Report **April 1924** When handed in at Local Office10 Port of **Newcastle-on-Tyne**No. in Survey held at **Wallsend-on-Tyne**Date, First Survey **Feb. 8th**Last Survey **April 6th 1921**

Reg. Book.

on the **Six Single ended Steel main Boilers No. 343 B**(Number of Visits **4**)

Gross

Net

Master ☒ Built at ☒ By whom built ☒ When built ☒

Engines made at ☒ By whom made ☒ When made ☒

Boilers made at **Wallsend-on-Tyne** By whom made **The Wallsend Slipway & Eng. Co.** When made **1921**

Registered Horse Power ☒ Owners **The Commonwealth of Australia** S.S. No. **47748** Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel**Leighton Furnace Co. & John Spencer**(Letter for record **S**) Total Heating Surface of Boilers **18150** Is forced draft fitted ☒ No. and Description ofBoilers **6 single ended multitubular** Working Pressure **220** Tested by hydraulic pressure to Date of testNo. of Certificate ☒ Can each boiler be worked separately ☒ Area of fire grate in each boiler **not given** No. and Description ofsafety 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 **16' 6"** Length **12' 8"**Material of shell plates **steel** Thickness **1 9/16"** Range of tensile strength **30-34** Are the shell plates welded or flanged **no.**Descrip. of riveting: cir. seams **D. R.** long. seams **TR: DB** Diameter of rivet holes in long. seams **1 19/32"** Pitch of rivets **10 3/4"**Lap of plates or width of butt straps **23 1/16"** Per centages of strength of longitudinal joint rivets **85.2** Working pressure of shell byrules **225 lbs** Size of manhole in shell **16" x 12"** Size of compensating ring **8 7/8" x 1 9/16"** No. and Description of Furnaces in eachboiler **4 Morrison's** Material **steel** Outside diameter **3' 8 1/4"** Length of plain part **top - bottom -** Thickness of plates **crown 5" bottom 8"**Description of longitudinal joint **welded** No. of strengthening rings ☒ Working pressure of furnace by the rules **227** Combustion chamberplates: Material **steel** Thickness: Sides **11/16"** Back **11/16"** Top **11/16"** Bottom **15/16"** Pitch of stays to ditto: Sides **9" x 8 1/4"** Back **9 3/4" x 7 1/4"**Top **9" x 8 1/4"** If stays are fitted with nuts or riveted heads **nuts** Working pressure by rules **220 lbs** Material of stays **steel** Area atsmallest part **2.03** Area supported by each stay **78.75** Working pressure by rules **246** End plates in steam space: Material **steel** Thickness **1 1/4"**Pitch of stays **18" x 1 1/2"** How are stays secured **and washers** Working pressure by rules **222** Material of stays **steel** Area at smallest part **7.24 sq"**Area supported by each stay **315 sq"** Working pressure by rules **239** Material of Front plates at bottom **steel** Thickness **31/32"** Material ofLower back plate **steel** Thickness **31/32"** Greatest pitch of stays **9 3/4" x 15 1/2"** Working pressure of plate by rules **220** Diameter of tubes **2 3/4"**Pitch of tubes **4" x 4"** Material of tube plates **steel** Thickness: Front **31/32"** Back **13/16"** Mean pitch of stays **8" x 8"** Pitch across widewater spaces **14 3/4"** Working pressures by rules **220 lbs** Girders to Chamber tops: Material **steel** Depth and thickness ofgirder at centre **10 5/8" x 1 1/2"** Length as per rule **3' 1 31/32"** Distance apart **8 1/4"** Number and pitch of Stays in each **3' 9"**Working pressure by rules **225** 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 ☒ Pressure to which each is adjusted ☒ Is Easing Gear fitted ☒**For The Wallsend Slipway & Engineering Co. Ltd.**

The foregoing is a correct description,

(Signed) **Andrew Laing.** Manufacturer.

Director

Dates of Survey ☒ During progress of work in shops - - - } **Feb 8, 23, Mar 3, Apr. 6**

while building ☒ During erection on board vessel - - - }

Is the approved plan of boiler forwarded herewith ☒Total No. of visits **4**

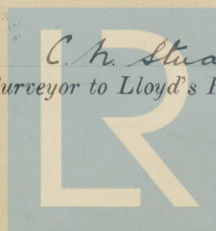
GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **The plates for these boilers have been flanged and annealed, the manhole doublings have been bent, flanged and annealed, but the rest of the material has not been worked, as the whole of it is to be sent to Australia, and the boilers are to be finished there. The materials & workmanship as far as the latter has gone are good, eligible in our opinion to be fitted on a classed vessel. The boilers have been despatched to Cockatoo Island, Sydney, N. S. W.**

Survey Fee **£ 12 : 12 : -** When applied for, **19**

Travelling Expenses (if any) **£ : : -** When received, **19**

(Signed) **Maurice Ritson & C. H. Stuart.** Engineer Surveyor to Lloyd's Register of Shipping.Committee's Minute **TUE. APR. 29 1924**

Assigned



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Foundation

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002846-002852-0357