

REPORT ON BOILERS.

No. 74,297

Received at London Office TUE. 19 APR. 1921

pt. 5a.

Port of **NEWCASTLE ON TYNE**

Date, First Survey **Feb 8th** Last Survey **April 6th 1921**

Survey held at **Wallsend-on-Tyne** (Number of Visits **3**)

on the **Sea Single Ended Steel Main Boilers No. 343-B.** Tons } Gross ✓
Net ✓

By whom built _____ When made _____

By whom made _____ When made **1921**

By whom made **The Wallsend Slipway & Eng. Co** Port belonging to _____

Owners **The Commonwealth of Australia**

Registered Horse Power **✓**

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

Letter for record **S** Total Heating Surface of Boilers **18150** Is forced draft fitted _____

Boilers **6 single ended multitubular** Working Pressure **220** Tested by hydraulic pressure to _____ Date of test _____

No. of Certificate _____ Area of fire grate in each boiler **Not given** No. and Description of _____

Can each boiler be worked separately _____ Pressure to which they are adjusted _____

Area of each valve _____

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**

Description of riveting: cir. seams **8-R.** long. seams **TR:DB** Diameter of rivet holes in long. seams **1 1/32"** Pitch of rivets **10 3/4"**

Working pressure of shell by _____

Per centages of strength of longitudinal joint _____

Size of manhole in shell **19" x 15"** Size of compensating ring **8 3/8" x 1 1/2"** No. and Description of Furnaces in each _____

Material **steel** Outside diameter **3-8 1/4"** Length of plain part _____ Thickness of plates _____

Description of longitudinal joint **Welded** No. of strengthening rings _____ Working pressure of furnace by the rules **227** Combustion chamber _____

Material **steel** Thickness: Sides **1/16"** Back **1/16"** Top **1/16"** Bottom **15/16"** Pitch of stays to ditto: Sides **9 x 8 1/4"** Back **9 1/2 x 7 1/4"**

Working pressure by rules **220** Material of stays **steel** Area at _____

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 **double nuts + washers** Working pressure by rules **222** Material of stays **steel** Area at smallest part **7.24**

Area supported by each stay **3150** Working pressure by rules **239** Material of Front plates at bottom **steel** Thickness **3/32"** Material of _____

Lower back plate **steel** Thickness **3/32"** 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 **3/32"** Back **1/16"** Mean pitch of stays **8" x 8"** Pitch across wide _____

Working pressures by rules **220** Girders to Chamber tops: Material **steel** Depth and thickness of _____

girder at centre **10 7/8" x 1 1/2"** Length as per rule **3-1 3/32"** 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 _____

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____ Is Easing Gear fitted _____

Date of Test _____ Pressure to which each is adjusted _____

Diameter of Safety Valve _____

FOR THE WALLSEND SLIPWAY & ENGINEERING CO. LIMITED.

The foregoing is a correct description,
Andrew Lang Manufacturer.

Is the approved plan of boiler forwarded herewith **Yes.**

Total No. of visits **3**

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

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

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 and workmanship as far as the latter has gone are good, eligible in our opinion to be fitted on a clamped vessel. The boilers have been despatched to Cockatoo Island Sydney N.S.W.**

Survey Fee ... £ **12 : 12 :** When applied for, **18 Apr 1921**

Travelling Expenses (if any) £ : : When received, **13/5/ 21**

Mamie Patton & Co. L. W. Stewart
Engineer Surveyors to Lloyd's Register of Shipping.

Committee's Minute _____

Assigned _____

Lloyd's Register Foundation

002846-002852-0351

63

5.

221924

1924

73.54

.36

24

volts.

Driven

in

theed,

generators

10/11

27/11