

# REPORT ON BOILERS.

No. 5759.

Port of Sydney, N.S.W.

Received at London Office

Survey held at Sydney, N.S.W.

Date, first Survey 27. 11. 13 Last Survey 6. 12. 1917

(Number of Visits 18)

FRI. 1 FEB 1918

on the Steel Twin Screw Steamer "Matthew Flinders" Tons } Gross 1180.  
Net 473.

By whom built Morris Dock & Eng. Co. Ltd. When built 1917.

By whom made " when made 1917

By whom made " when made 1917

Horse Power 199.4. Owners State of Victoria Port belonging to Melbourne.

## TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

| record                                                                                       | Total Heating Surface of Boilers         | Is forced draft fitted | No. and Description of |
|----------------------------------------------------------------------------------------------|------------------------------------------|------------------------|------------------------|
| Working Pressure                                                                             | Tested by hydraulic pressure to          | Date of test           |                        |
| Can each boiler be worked separately                                                         | Area of fire grate in each boiler        | No. and Description of |                        |
| Area of each valve                                                                           | Pressure to which they are adjusted      |                        |                        |
| In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler |                                          |                        |                        |
| Mean dia. of boilers                                                                         | Length                                   |                        |                        |
| Are the shell plates welded or flanged                                                       |                                          |                        |                        |
| Diameter of rivet holes in long. seams                                                       | Pitch of rivets                          |                        |                        |
| Working pressure of shell by                                                                 |                                          |                        |                        |
| No. and Description of Furnaces in each                                                      |                                          |                        |                        |
| Material                                                                                     | Outside diameter                         | Length of plain part   | Thickness of plates    |
| No. of strengthening rings                                                                   | Working pressure of furnace by the rules | Combustion chamber     |                        |
| Pitch of stays to ditto: Sides                                                               | Back                                     |                        |                        |
| Working pressure by rules                                                                    | Material of stays                        | Diameter at            |                        |
| End plates in steam space: Material                                                          | Thickness                                |                        |                        |
| Material of stays                                                                            | Diameter at smallest part                |                        |                        |
| Material of Front plates at bottom                                                           | Thickness                                | Material of            |                        |
| Working pressure of plate by rules                                                           | Diameter of tubes                        |                        |                        |
| Mean pitch of stays                                                                          | Pitch across wide                        |                        |                        |
| Girders to Chamber tops: Material                                                            | Depth and thickness of                   |                        |                        |
| Number and pitch of Stays in each                                                            |                                          |                        |                        |
| Can the superheater be shut off and the boiler worked                                        |                                          |                        |                        |
| Description of longitudinal joint                                                            | Diam. of rivet                           |                        |                        |
| Material of flue plates                                                                      | Thickness                                |                        |                        |
| End plates: Thickness                                                                        | How stayed                               |                        |                        |
| Area of safety valves to superheater                                                         | Are they fitted with easing gear         |                        |                        |

## VERTICAL DONKEY BOILER—

No. One Description Vertical Manufacturers of steel Stewart & Lloyds & Co. Ltd.  
Sydney By whom made Morris Dock & Eng. Co. Ltd. When made 1915 Where fixed Stokehold.  
 pressure 120 tested by hydraulic pressure to 240 No. of Certificate 13 Fire grate area 11.5 Description of safety valves 2 Direct Spring  
 safety valves 2 Area of each 3.14 Pressure to which they are adjusted 120 If fitted with easing gear Yes If steam from main boilers can  
 donkey boiler no Dia. of donkey boiler 4.6 Length 9.22 Material of shell plates Steel Thickness 7/16 Range of tensile  
 Descrip. of riveting long. seams Double Lap Dia. of rivet holes 13/16 Whether punched or drilled drilled Pitch of rivets 2 3/4  
 Rivets 86.5% Working pressure of shell by rules 133 Thickness of shell crown plates 5/8  
 Per centage of strength of joint 70.5% Diameter of furnace Top 44 7/8 Bottom 47 1/4 Length of furnace 4.1  
 of do. 4.5 No. of Stays to do. 6 Dia. of stays 1 7/8 Working pressure of furnace by rules 125 Thickness of furnace crown  
 of furnace plates 7/16 Description of joint Lap. Sin. R. Thickness of uptake plates 7/16 Thickness of water tubes 3/8  
 Stayed by 6 1 7/8 stays Diameter of uptake 10

The foregoing is a correct description,

Frankie Managary Manufacturer

During progress of work in shops -- 27. November 1913 Dec 4, 22. Jan 1914. 1 visit Feb 1. Mar 1. Apr 1. May 1. June 1  
 During erection on board vessel -- 2. August. 1916 Sep 3 visits. June 1917. 14 + 17. Dec 1. 6.  
 Total No. of visits 18.

Is the approved plan of main boiler forwarded herewith

donkey

Lloyd's Register Foundation

006221-006235-0090

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# GENERAL REMARKS

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

This donkey Boiler for Dragger "Matthew Flinders" has been built of best materials, is of good workmanship, seen sound and tight under main test, and steam test, and eligible in my opinion for 1918. Built under Special Survey.

A. C. Heron

Certificate (if required) to be sent to

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

|                                |   |   |   |                   |
|--------------------------------|---|---|---|-------------------|
| The amount of Entry Fee...     | £ | : | : | When applied for, |
| Special ...                    | £ | : | : | 8. 12 1917        |
| Donkey Boiler Fee ...          | £ | 3 | 0 | When received,    |
| Travelling Expenses (if any) £ | : | : | : | 19                |

Committee's Minute

FRI. 22 FEB. 1918

Assigned

Already noted on Machinery List.

A. C. Heron

Engineer Surveyor to Lloyd's Register of British and Foreign Steamships



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WRITTEN.