

# 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

FRI. - 1 FEB 1917

(Number of Visits 18)

Gross 1180. Net 473.

on the Steam Tug *Matthew Flinders*

made at Sydney By whom made Maris Dock + Eng. Co. Ltd. When built 1917.

made at Sydney By whom made " " " when made 1917

made at Sydney 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

certificate Can each boiler be worked separately Area of fire grate in each boiler No. and Description of

plates to each boiler Area of each valve Pressure to which they are adjusted

fitted with easing gear In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length

of shell plates Thickness Range of tensile strength Are the shell plates welded or flanged

of riveting: cir. seams long. seams Diameter of rivet holes in long. seams Pitch of rivets

plates or width of butt straps Per centages of strength of longitudinal joint Working pressure of shell by

Size of manhole in shell Size of compensating ring No. and Description of Furnaces in each

Material Outside diameter Length of plain part Thickness of plates crown bottom

on of longitudinal joint No. of strengthening rings Working pressure of furnace by the rules Combustion chamber

Material Thickness: Sides Back Top Bottom Pitch of stays to ditto: Sides Back

If stays are fitted with nuts or riveted heads Working pressure by rules Material of stays Diameter at

part Area supported by each stay Working pressure by rules End plates in steam space: Material Thickness

stays How are stays secured Working pressure by rules Material of stays Diameter at smallest part

supported by each stay Working pressure by rules Material of Front plates at bottom Thickness Material of

back plate Thickness Greatest pitch of stays Working pressure of plate by rules Diameter of tubes

tubes Material of tube plates Thickness: Front Back Mean pitch of stays Pitch across wide

aces Working pressures by rules Girders to Chamber tops: Material Depth and thickness of

centre Length as per rule Distance apart Number and pitch of Stays in each

pressure by rules Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

ed with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

## VERTICAL DONKEY BOILER

No. One Description Vertical Manufacturers of steel Stewart & Lloyds + Lanarkshire Steel Co. Clydebank.

Sydney By whom made Maris Dock + Eng. Co. Ltd. When made 1915 Where fixed Blockhold.

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 Dan Riv Lap Dia. of rivet holes 13/16 Whether punched or drilled drilled Pitch of rivets 2 3/4

plating 4 Rivets 86.5% Working pressure of shell by rules 133 Thickness of shell crown plates 5/8

of do. 4.5 No. of Stays to do. 6, 1 7/8 Dia. of stays 1 7/8 Diameter of furnace Top 44 7/8 Bottom 47 1/4 Length of furnace 4.1

ss of furnace plates 7/16 Description of joint Lap Sin R Working pressure of furnace by rules 125 Thickness of furnace crown

7/16 Stayed by 6. 1 7/8 stays Diameter of uptake 10 Thickness of uptake plates 7/16 Thickness of water tubes 3/8

The foregoing is a correct description, signed by the Manufacturer.

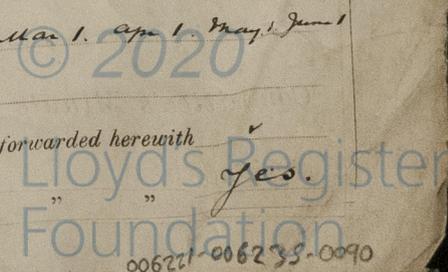
During progress of work in shops - - - 27. November 1913. Dec 4, 22. Jan 1914. 1 visit Feb 1. Mar 1. Apr 1. May 1. June 1

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 Yes.

" " " donkey " " " "



006221-006235-0090

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

This donkey Boiler for Dredger "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.

Already noted on Machinery List.

A. C. Heron

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

Committee's Minute

FRI. 22 FEB. 1918

Assigned



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WRITTEN.