

## REPORT ON BOILERS.

No. 50000

Port of Newcastle

Received at London Office

WED. 31 JAN 1906

No. in Survey held at Newcastle

Date, first Survey

Last Survey

(Number of Visits)

Jan 27 1906

Reg. Book.

on the S. S. "Hymettus"

Gross 4806  
Net 2985

Master C. McDonald Built at Newcastle

By whom built Palmes' Co

When built 1906

Engines made at Newcastle

By whom made Palmes' Co

when made 1906

Boilers made at do

By whom made do

when made 1906

Registered Horse Power 539

Owners A Currie &amp; Co

Port belonging to Melbourne

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY~~ <sup>Auxiliary</sup> Manufacturers of Steel J. Spence & Sons

(Letter for record S) Total Heating Surface of Boilers 1236 sq ft Is forced draft fitted no No. and Description of

Boilers one single-ended Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 24/11/05

No. of Certificate 7124 Can each boiler be worked separately ✓ Area of fire grate in each boiler 34 sq ft No. and Description of

safety valves to each boiler two - spring Area of each valve 9.9 sq in Pressure to which they are adjusted 180 lbs

Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no

Smallest distance between boilers or uptakes and bunkers or woodwork 15" Mean dia. of boilers 11' - 7 1/2" Length 10' - 0"

Material of shell plates Steel Thickness 1 1/2" Range of tensile strength 29-32 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams S. Lap long. seams S. B. S. &amp; Rivet Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 6 3/4"

Lap of plates or width of butt straps 15 1/2" Per centages of strength of longitudinal joint rivets 94 plate 94.2 Working pressure of shell by

rules 197 lbs Size of manhole in shell 16" x 12" Size of compensating ring 2' - 7" x 2' - 3" x 1 1/2" No. and Description of Furnaces in each

boiler 2 - Sights Material Steel Outside diameter 3' - 5 1/4" Length of plain part top ✓ Thickness of plates crown 17 1/2" bottom ✓

Description of longitudinal joint Welded No. of strengthening rings ✓ Working pressure of furnace by the rules 198 lbs Combustion chamber

plates: Material Steel Thickness: Sides 2 1/32 Back 2 1/32 Top 2 1/32 Bottom 3/4" Pitch of stays to ditto: Sides 9 1/2" x 4 1/2" Back 8 3/4" x 9 3/4"

Top 10 3/4" x 1 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 180 lbs Material of stays Steel Diameter at

smallest part 1.79" Area supported by each stay 81 sq in Working pressure by rules 200 lbs End plates in steam space: Material Steel Thickness 1 1/4"

Pitch of stays 17 3/4" x 1 1/2" How are stays secured S. H. W Working pressure by rules 216 lbs Material of stays Steel Diameter at smallest part 4.77"

Area supported by each stay 275 sq in Working pressure by rules 180 lbs Material of Front plates at bottom Steel Thickness 1 3/32 Material of

Lower back plate Steel Thickness 1 3/32 Greatest pitch of stays 14" Working pressure of plate by rules 300 lbs Diameter of tubes 3 3/4"

Pitch of tubes 4 1/2" x 4 1/2" Material of tube plates Steel Thickness: Front 1 3/32 Back 2 7/32 Mean pitch of stays 9" Pitch across wide

water spaces 14" Working pressures by rules 316 lbs Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 8 3/4" x 1 1/2" Length as per rule 26" Distance apart 10 3/4" Number and pitch of Stays in each 2 - 7 1/2"

Working pressure by rules 220 lbs Superheater or Steam chest: how connected to boiler none Can the superheater be shut off and the boiler worked

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

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

If stiffened with rings ✓ Distance between rings ✓ Working pressure by rules ✓ End plates: Thickness ✓ How stayed ✓

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

VERTICAL DONKEY BOILER— No. Description Manufacturers of steel

Made at By whom made When made Where fixed

Working pressure tested by hydraulic pressure to No. of Certificate Fire grate area Description of safety valves

No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can

enter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile

strength Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

Lap of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates

Radius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace

Thickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown

plates Stayed by Diameter of uptake Thickness of uptake plates Thickness of water tubes

The foregoing is a correct description,

Manufacturer.

Please see report attached.

Dates of Survey  
while building  
During progress of work in shops - -  
During erection on board vessel - - -  
Total No. of visits

Is the approved plan of main boiler forwarded herewith yes

" " " auxiliary donkey " " " " " "



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

*[Faint, mostly illegible handwritten text in the main body of the page, likely bleed-through from the reverse side.]*

The amount of Entry Fee...	£	.	.	.	When applied for,
Special ... ..	£	.	.	.	30 JAN 1906
Donkey Boiler Fee ...	£	2	2	.	When received,
Travelling Expenses (if any) £	£	.	.	.	19

*Thomas Field*  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

FRI. 2 FEB 1906

Assigned



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Foundation