

REPORT ON BOILERS.

Wve. No. 5350.
Sta. No. 23474
WED. 16 OCT 1907

Port of *Newcastle*

Received at London Office

No. in Reg. Book.

Survey held at *Gateshead*

Date, first Survey *Aug 10 07*

Last Survey *Sep 9 1907*

(Number of Visits *30*)

on the

Steel Screw Steamer Ladywood

Tons } Gross *1983.35*
Net *1232.64*

Master *David Jones* Built at *Sunderland* By whom built *Ostoune Graham & Co 137* When built *1907*

Engines made at *Sunderland*. By whom made *G. Clark & Co* when made *1907*

Boilers made at *Gateshead* By whom made *Clarke Chapman & Co No. 2722d* when made *1907*

Registered Horse Power Owners *W. France Fenwick & Co Ltd* Port belonging to *London*

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

(Letter for record)	Total Heating Surface of Boilers	Is forced draft fitted	No. and Description of Boilers
	Working Pressure	Tested by hydraulic pressure to	Date of test
No. of Certificate	Can each boiler be worked separately	Area of fire grate in each boiler	No. and Description of safety 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	Length	
Material of shell plates	Thickness	Range of tensile strength	Are the shell plates welded or flanged
Descrip. of riveting: cir. seams	long. seams	Diameter of rivet holes in long. seams	Pitch of rivets
Lap of plates or width of butt straps	Per centages of strength of longitudinal joint	Working pressure of shell by rules	No. and Description of Furnaces in each boiler
Size of manhole in shell	Size of compensating ring		
Material	Outside diameter	Length of plain part	Thickness of plates
Description of longitudinal joint	No. of strengthening rings	Working pressure of furnace by the rules	Combustion chamber
plates: Material	Thickness: Sides	Back	Top
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 smallest part
Area supported by each stay	Working pressure by rules	End plates in steam space: Material	Thickness
Pitch of stays	How are stays secured	Working pressure by rules	Material of stays
Diameter at smallest part			
Area supported by each stay	Working pressure by rules	Material of Front plates at bottom	Thickness
Material of			
Lower back plate	Thickness	Greatest pitch of stays	Working pressure of plate by rules
Diameter of tubes			
Pitch of tubes	Material of tube plates	Thickness: Front	Back
Mean pitch of stays	Pitch across wide		
water spaces	Working pressures by rules	Girders to Chamber tops: Material	Depth and thickness of girder at centre
Length as per rule	Distance apart	Number and pitch of Stays in each	
Working pressure by rules	Superheater or Steam chest: how connected to boiler	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. *1* Description *Sky Back* Manufacturers of steel *J. Spence & Sons*
 Made at *Gateshead* By whom made *Clarke Chapman & Co* When made *1907* Where fixed *Stokehold* Working pressure *80 lbs*
 tested by hydraulic pressure to *160 lbs* Date of test *9/9/07* No. of Certificate *7502* Fire grate area *23 sq ft* Description of safety valves *Direct Spring*
 No. of safety valves *Two* Area of each *7.0 sq ft* Pressure to which they are adjusted *80 lbs* If fitted with easing gear *Yes* If steam from main boilers can enter the donkey boiler *No* Dia. of donkey boiler *6'-6"* Length *14'-0"* Material of shell plates *Steel* Thickness *7/16"* Range of tensile strength *28-32* Descrip. of riveting long. seams *S. Lap* Dia. of rivet holes *7/8"* Whether punched or drilled *Drilled* Pitch of rivets *3 3/16"*
 Lap of plating *4 1/4"* Per centage of strength of joint Rivets *73.1* Plates *72.5* Working pressure of shell by rules *93 lbs* Thickness of shell crown plates *9/16"*
 Radius of do. *5'-0"* No. of Stays to do. *6* Dia. of stays *1 1/2"* Diameter of furnace Top *5'-6"* Bottom *5'-6"* Length of furnace *2'-9"*
 Thickness of furnace plates *9/16"* Description of joint *S. Lap* Working pressure of furnace by rules *93 lbs* Thickness of furnace crown plates *9/16"* Radius of do. *2'-9"* Stayed by *Yes* Diameter of tubes *2 1/2"* Thickness of uptake plates *3/4"*
 Thickness of stay tubes *1/4"*

For CLARKE CHAPMAN & CO. LTD
The foregoing is a correct description,
Robert Scoble Manufacturer.

Dates of Survey while building { During progress of work in shops - - } *1907 Aug 14, 22, 23, 20, Sep 9*
{ During erection on board vessel - - - }
Total No. of visits *6*

Is the approved plan of main boiler forwarded herewith
" " " donkey " " " "
W850-0117



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

This donkey boiler has been constructed under special survey & the materials & workmanship are found to be good. It is secured in place, mountings fitted, & safety valves adjusted under steam. J.F.J.

This boiler has now been fitted into the S/S Montoria examined, tested under steam & safety valves adjusted to the working pressure.

J. J. Findlay

(The Stamps are requested not to write on or below the space for Committee's Minute.)
 See also (if required) to be sent to

The amount of Entry Fee...	£	:	:	When applied for.
Special	£	:	:	Monday
Donkey Boiler Fee ...	£	0	:	When applied for.
Travelling Expenses (if any) £	:	:	:	19

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

J. J. Findlay

Committee's Minute

FRI. 18 OCT 1907

Assigned

FRI 20 AUG 1909



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