

st. 5.

# REPORT ON BOILERS.

Invc No. 52917  
Ld No 23589

Port of Newcastle

Received at London Office

THUR. 23 JAN 1908

No. in Survey held at  
Book.

Gateshead

Date, first Survey

Nov. 18

Last Survey

2nd Dec

1907.

(Number of Visits #)

Tons

Gross 686.49

Net 341.45

on the Steel screw steamer JOHN MILES

Master C. W. Bell

Built at

Sunderland

By whom built

S. P. Austin & Sons No. 245

When built

1908

Lines made at

Sunderland

By whom made

North Eastern Mar. E. G. Co

when made

1908

Boiler made at

Gateshead

By whom made

Clarke Chapman & Co No. 2771 d

when made

1907

Registered Horse Power

Owners Stephenson Clarke & Co

Port belonging to

London

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

Number 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	
of Certificate	Can each boiler be worked separately	Area of fire grate in each boiler	No. and Description of
by valves to each boiler	Area of each valve	Pressure to which they are adjusted	
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
Description of riveting: cir. seams	long. seams	Diameter of rivet holes in long. seams	Pitch of rivets
of plates or width of butt straps	Per centages of strength of longitudinal joint	rivets	Working pressure of shell by plate
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
Description 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
smallest part	Area supported by each stay	Working pressure by rules	End plates in steam space: Material
Thickness	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			
Front back plate	Thickness	Greatest pitch of stays	Working pressure of plate by rules
Diameter of tubes			
Material of tube plates	Thickness: Front	Back	Mean pitch of stays
Pitch across wide			
Working pressures by rules	Girders to Chamber tops: Material	Depth and thickness of	
Length as per rule	Distance apart	Number and pitch of Stays in each	
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		
Working pressure of shell by rules	Diameter of flue	Material of flue plates	Thickness
Distance between rings	Working pressure by rules	End plates: Thickness	How stayed
Area of safety valves to superheater	Are they fitted with easing gear		

## VERTICAL DONKEY BOILER

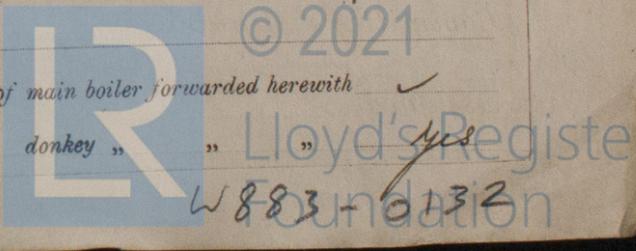
No. 1 Description Cross-tube Manufacturers of steel J. Spence & Sons  
 Made at Gateshead By whom made Clarke Chapman & Co When made 1907 Where fixed St. Helens (Mersey) Working pressure 90 lbs  
 Tested by hydraulic pressure to 180 lbs Date of test 2/12/07 No. of Certificate 7636 Fire grate area 18 1/2 Description of safety valves Direct spring  
 of safety valves ONE Area of each 9.62 Pressure to which they are adjusted 90 lbs If fitted with easing gear yes If steam from main boilers can  
 enter the donkey boiler No Dia. of donkey boiler 5'-9" Length 12'-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  
 of plating 4 1/2 Per centage of strength of joint Rivets 73.1 Working pressure of shell by rules 107 lbs Thickness of shell crown plates 9/16  
 Radius of do. 5'-0" No. of Stays to do. 5 Dia. of stays 1 3/4 Diameter of furnace Top 4'-5 1/4 Bottom 4'-10 Length of furnace 4'-11  
 Thickness of furnace plates 19/32 Description of joint S. Lap Working pressure of furnace by rules 107 lbs Thickness of furnace crown  
 plates 9/16 Radius of do. 5'-0" Stayed by as above Diameter of uptake 15 Thickness of uptake plates 7/16  
 Thickness of water tubes 7/16

for CLARKE, CHAPMAN & Co. LTD.  
 The foregoing is a correct description,  
 Robert Scope Manufacturer.

Director

During progress of work in shops - - - 1907. Nov. 18, 26, 29, Dec. 2  
 During erection on board vessel - - -  
 Total No. of visits #

Is the approved plan of main boiler forwarded herewith



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

This donkey boiler has been constructed under special survey and the materials and workmanship are found to be good.

Donkey Boiler efficiently secured & its mounting examined & the safety Valve has been admitted to its working pressure under steam.

Certificate (if required) to be sent to the Committee's Minute. (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 ... ..	£	:	:	
Donkey Boiler Fee ...	£	0	0	When received
Travelling Expenses (if any)£		:	:	

*Provisionally account Paid 12/188*

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

Committee's Minute

TUES. 28 JAN 1908

Assigned



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