

REPORT ON BOILERS.

No. 4942

Port of MIDDLESBROUGH-ON-TEES

Received at London Office

TUES. APR 23 1907

No. in Survey held at
Reg. Book.StocktonDate, first Survey 24th FebrLast Survey 2nd April 1907(Number of Visits 5)on the Donkey Boiler (N^o 3811)L.S. MakamboGross
Tons }
Net

Master

Built at

Port Glasgow

By whom built

Clyde S.A. & Eng Co Ltd

When built

1907

Engines made at

Port Glasgow

By whom made

Clyde S.A. & Eng Co Ltd

when made

1907

Boilers made at

do

By whom made

do

when made

1907

Registered Horse Power

Owners

Brown, Philp & Co

Port belonging to

Sydney

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	Size of manhole in shell	Size of compensating ring	No. and Description of Furnaces in each
boiler	Material	Outside diameter	Length of plain part
Description of longitudinal joint	No. of strengthening rings	Working pressure of furnace by the rules	Combustion chamber
plates: Material	Thickness: Sides	Back	Top
Top	If stays are fitted with nuts or riveted heads	Working pressure by rules	Material of stays
smallest part	Area supported by each stay	Working pressure by rules	End plates in steam space: Material
Pitch of stays	How are stays secured	Working pressure by rules	Material of stays
Area supported by each stay	Working pressure by rules	Material of Front plates at bottom	Thickness
Lower back plate	Thickness	Greatest pitch of stays	Working pressure of plate by rules
Pitch of tubes	Material of tube plates	Thickness: Front	Back
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
holes	Pitch of rivets	Working pressure of shell by rules	Diameter of flue
If stiffened with rings	Distance between rings	Working pressure by rules	End plates: Thickness
Working pressure of end plates	Area of safety valves to superheater	Are they fitted with easing gear	

VERTICAL DONKEY BOILER—No. One Description 3 Cross tubes Manufacturers of steel J. Spencer & Sons Ltd

Made at Stockton By whom made Riley Bros (Boilermakers) Ltd When made 1907 Where fixed Working pressure 100 lbs

tested by hydraulic pressure to 200 Date of test 19.3.1907 No. of Certificate 3878 Fire grate area 23 sq ft 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 6'-6" Length 12'-0" Material of shell plates Steel Thickness 1/2" Range of tensile strength 27/32 Descrip. of riveting long. seams J.R. Lap. Dia. of rivet holes 15/16 Whether punched or drilled Pitch of rivets 2 7/8"

Lap of plating 4 7/8" Per centage of strength of joint Rivets 4.5 Working pressure of shell by rules 101 lbs Thickness of shell crown plates 9/16 Radius of do. Disks No. of Stays to do. 7 Dia. of stays 2 1/8" Diameter of furnace Top 4'-10 1/2" Bottom 3'-6 9/16" Length of furnace 4'-8"

Thickness of furnace plates 3/4 Description of joint S.R. Lap. Working pressure of furnace by rules 127 lbs Thickness of furnace crown plates 2 1/32 Radius of do. 5'-0" Stayed by Diameter of uptake 16" Thickness of uptake plates 7/16"

Thickness of water tubes 3/8"

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building

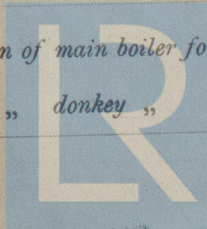
During progress of work in shops - - - 1907. Febr 24. 28. March 18. 19.

During erection on board vessel - - - April 2

Total No. of visits 5

Is the approved plan of main boiler forwarded herewith

" " " donkey " " " Yes.



Lloyd's Register
Foundation

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

This boiler has been built under Special Survey. The materials and workmanship are good and efficient. After satisfactorily withstanding the hydraulic test it has been despatched for fitting on board.

Certificate (if required) to be sent to

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

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

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

Committee's Minute

Glasgow 22 APR 1907

Assigned

See accompanying report



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