

REPORT ON BOILERS.

Mdb No. 4304
New No. 49926
THUR. 11 JAN 1906

Port of MIDDLESBROUGH-ON-TEES.

Received at London Office

No. in Reg. Book.

Survey held at Middlesbrough

Date, first Survey June 23

Last Survey Jan 4

1906.

(Number of Visits)

on the Donkey Boiler No 1426 of 3/8 "Dinsdale hall"

Tons } Gross 3898
Net 2534

Master

G. Edwards

Built at Newcastle

By whom built R. Stephenson & Co. Ld

When built 1906

Engines made at

Wallsend

By whom made

No. Eastern Man. Eng Co

when made 1906

Boilers made at

Middlesbrough

By whom made

Richardson Westgarth & Co. Ld

when made 1906

Registered Horse Power

Owners Guthrie Bros & Co.

Port belonging to W. Hartlepool

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 rivets plate 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 top bottom Thickness of plates crown bottom

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

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

Top 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. One Description Blakes Improved Pat Manufacturers of steel Clyde Bridge Steel Co. Ld

Made at Middlesbrough By whom made Richardson Westgarth & Co When made 16.10.05 Where fixed Main deck

Working pressure 90 tested by hydraulic pressure to 180 No. of Certificate 3534 Fire grate area 32.75 Description of safety valves Spring

No. of safety valves 2 Area of each 4.9 Pressure to which they are adjusted 90 If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler No.

Dia. of donkey boiler 8'-0" Length 17'-3" Material of shell plates Steel Thickness 7/16" Range of tensile strength 27/32

Descrip. of riveting long. seams DR Lap Dia. of rivet holes 15/16" Whether punched or drilled drilled Pitch of rivets 3"

Lap of plating 4 5/8" Per centage of strength of joint Rivets 69.7 Plates 68.75 Working pressure of shell by rules 96.5 Thickness of shell crown plates 9/16"

Radius of do. 4'-0" No. of Stays to do. ✓ Dia. of stays ✓ Diameter of furnace Top 4'-0" Bottom 6'-8" Length of furnace 5'-0 1/2"

Thickness of furnace plates 1/16" Description of joint S R Lap Working pressure of furnace by rules 91.09 Thickness of furnace crown plates Top 1/16" Stayed by dished 3' grad & gusset tubes Diameter of uptake 2 3/4" Thickness of uptake plates F 1 1/2" Pitch of water tubes 4 1/8"

The foregoing is a correct description,

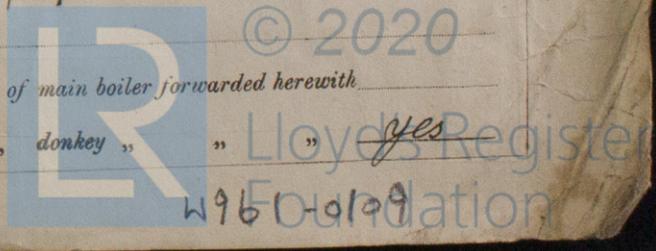
For RICHARDSONS, WESTGARTH & Co. Ltd

Manufacturer.

J. Maston

Dates of Survey while building: During progress of work in shops - - - 1905 June 23, July 14-26, Aug 15-29, Sept. 14-22, 27-29, Oct. 3-5-16; During erection on board vessel - - -

Is the approved plan of main boiler forwarded herewith



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 on 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) £	:	:	:	8 Nov 1906

Wells

R D Shilston & J Y Findlay
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

FRI. 12 JAN 1906

FRI. DEC 21 1906

FRI. FEB 22 1907

Assigned

FRI. JAN 25 1907



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Foundation