

REPORT ON BOILERS.

No. 50206.

Port of Newcastle-on-Tyne.

Received at London Office. MON. 12 MAR 1906

No. in Survey held at Newcastle-on-Tyne. Date, first Survey July 19 '05 Last Survey Mar. 1st 1906.
Reg. Book. 64. on the Steel. s.s. King Edward.
Master C. Ritch Built at Newcastle. By whom built R. Stephenson & Co. When built 1906.
Engines made at Stockton. By whom made Blair & Co. Ltd. when made 1906.
Boilers made at Hebburn. By whom made R. Stephenson & Co. when made 1906.
Registered Horse Power Owners Phillips, Phillips & Co. Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Spencer & Son.

(Letter for record ☒) Total Heating Surface of Boilers 1250 sq. ft. Is forced draft fitted No. No. and Description of Boilers One. cyl. Single Ended. Working Pressure 100 lbs. Tested by hydraulic pressure to 200 lbs. Date of test 1-11-05.

No. of Certificate 7114. Can each boiler be worked separately ☒ Area of fire grate in each boiler 41 sq. ft. No. and Description of safety valves to each boiler Two Spring. Area of each valve 7 sq. in. Pressure to which they are adjusted 100 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 18 inches Mean dia. of boilers 12'-0" Length 10'-4 1/2"

Material of shell plates Steel. Thickness 3/4" Range of tensile strength 28-32. Are the shell plates welded Flanged No.

Descrip. of riveting: cir. seams V. lap. long. seams V. strap. Diameter of rivet holes in long. seams 1" Pitch of rivets 4"

Top of plates width of butt straps 10 1/4". Per centages of strength of longitudinal joint rivets 77. plate 75. Working pressure of shell by rules 113 1/2 lbs. Size of manhole in shell 16"x12. Size of compensating ring 7"x3/4". No. and Description of Furnaces in each boiler Two plain Steel. Outside diameter 42 1/4". Length of plain part top 76" bottom 72" Thickness of plates crown 5/8" bottom 3/8"

Description of longitudinal joint d. strap No. of strengthening rings 1/2 Working pressure of furnace by the rules 130 lbs. Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 7/16" Top 9/16" Bottom 7/16" Pitch of stays to ditto: Sides 9 1/4"x9 1/4" Back 9 1/2"x10"

Top 9 1/4"x9. If stays are fitted with nuts or riveted heads nuts. Working pressure by rules 115 lbs. Material of stays Steel Diameter at smallest part 1 1/4". Area supported by each stay 90.5 Working pressure by rules 110 lbs. End plates in steam space: Material Steel Thickness 7/8".

Pitch of stays 18"x18" How are stays secured V. nut & washer. Working pressure by rules 104 lbs. Material of stays Steel Diameter at smallest part 3.675". Area supported by each stay 324 sq. in. Working pressure by rules 113 1/2 lbs. Material of Front plates at bottom Steel Thickness 15/32" Material of

Lower back plate Steel Thickness 23/32" Greatest pitch of stays 15" Working pressure of plate by rules 113 1/2 lbs. Diameter of tubes 3 1/2". Pitch of tubes 4 3/4"x4 3/4" Material of tube plates Steel Thickness: Front 25/32" Back 13/16" Mean pitch of stays 14 1/4" Pitch across wide

water spaces 14" Working pressures by rules 114 lbs. Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 7 1/2"x1 1/2". Length as per rule 30" Distance apart 9" Number and pitch of Stays in each 2 - 9 3/4".

Working pressure by rules 139 lbs. 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. 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 Stays by Diameter of uptake Thickness of uptake plates Thickness of water tubes

ROBERT STEPHENSON & CO., LIMITED. The foregoing is a correct description. ROBERT STEPHENSON & CO., LIMITED. Manufacturer.

Dates of Survey while building During progress of work in shops - 1905 July 19 Aug 28 16 21 28 Sep 8 Oct 6 13 17 26 Nov 1 1906 Jan 17 Feb 14 22 Mar 1
During erection on board vessel -
Total No. of visits 16

Is the approved plan of main boiler forwarded herewith

" donkey "

Lloyd's Register Foundation

W1213-0160

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

*This boiler has been constructed under Special Survey.
The material & workmanship good & efficient.*

(The Surveyors are requested not to write on or below the space for Committee's Minute.)
 Certificate (if required), to be sent to

The amount of Entry Fee...	£	:	:	When applied for.
Special	£	:	:	10 MAR 1906
Donkey Boiler Fee ...	£	2	2	When received.
Travelling Expenses (if any) £	:	:	:	14/3/06

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

Committee's Minute TUES. 20 MAR 1906

Assigned



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