

REPORT ON BOILERS.

No. 50206.

Port of *Newcastle-on-Tyne.*

Received at London Office **MUN. 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.* (Number of Visits *16.*)
 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, Phillip & Co.* Port belonging to *London*

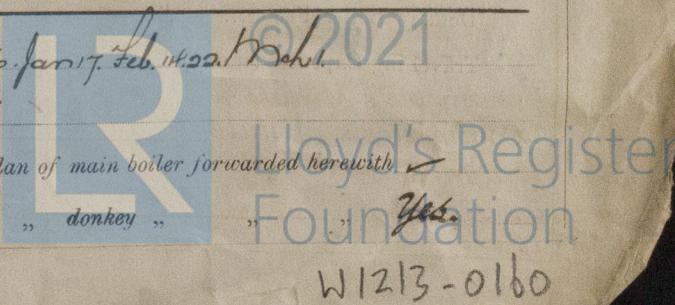
MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *John Spencer & Son.*

(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 *U. lap.* long. seams *U. strap.* Diameter of rivet holes in long. seams *1"* Pitch of rivets *4"*
 Lap of plates width of butt straps *10 1/4"* Per centages of strength of longitudinal joint rivets *77.* Working pressure of shell by rules *113 lbs.* Size of manhole in shell *16" x 12.* Size of compensating ring *7" x 3/4"* No. and Description of Furnaces in each boiler *Two plain* Material *Steel.* Outside diameter *42 1/4"* Length of plain part top *76"* Thickness of plates crown *5 7/8"* bottom *42"* bottom *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 *9/16"* Top *9/16"* Bottom *11/16"* Pitch of stays to ditto: Sides *9 1/4" x 9 1/4"* Back *9 1/2" x 10"* Top *9 1/4" x 9"* 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 sq. in.* Working pressure by rules *110 lbs.* End plates in steam space: Material *Steel* Thickness *7/8"* Pitch of stays *18" x 18"* How are stays secured *U. nuts.* Working pressure by rules *104 lbs.* Material of stays *Steel* Diameter at smallest part *3.67 sq. in.* Area supported by each stay *324 sq. in.* Working pressure by rules *113 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 lbs.* Diameter of tubes *3 1/2"* Pitch of tubes *4 3/4" x 4 3/4"* Material of tube plates *Steel.* Thickness: Front *23/32"* 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 *4 1/2" x 1 1/2"* Length as per rule *30"* Distance apart *9"* Number and pitch of Stays in each *2 - 9 1/4"* 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
 Diameter of uptake Thickness of uptake plates Thickness of water tubes
 The foregoing is a correct description.
 Manufacturer.

Dates of Survey while building: During progress of work in shops - *1905 July 19 Aug 28 10 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 "



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.)
 (Certificates (if required), to be sent to)

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

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

Committee's Minute TUES. 20 MAR 1906

Assigned



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 Foundation