

Rpt. 5.

REPORT ON BOILERS.

WED. JAN 30 1907

U.S. No. 24658
U. N. 23136Port of *Glasgow*

Received at London Office

TUES. NOV 27 1906

No. in Survey held at *Annan*
Reg. Book.Date, first Survey *24 Aug.*Last Survey *16 Nov.*

1906

(Number of Visits *30*)Gross *1860.19*Net *1162.69*on the *Donkey boiler for S.S. "Westhampton"**Osbourne Graham & Co.*Master *A. W. Lockworthy* Built at *Sunderland* By whom built *Osbourne Graham & Co.* When built *1907*Engines made at *Sunderland* By whom made *Richardsons Westgarth & Co.* when made *1907*Boilers made at *Sunderland* By whom made *Richardsons Westgarth & Co.* when made *1907*Registered Horse Power Owners *British Maritime Trust* Port belonging to *West 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 Working pressure of shell by plate

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 Thickness of plates crown bottom 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. *4166* Description *Cochran* Manufacturers of steel *Glydebridge Steel*Made at *Annan* By whom made *Cochran & Co. Annan* When made *1906* Where fixed *at Stokeloid* Working pressure *100 lbs.*tested by hydraulic pressure to *200* Date of test *23/11/06* No. of Certificate *8319* Fire grate area Description of safety valves *Direct spring*No. of safety valves *Two* Area of each *10.7* Pressure to which they are adjusted *100 lbs.* If fitted with easing gear *yes* If steam from main boilers can enter the donkey boiler *no* Dia. of donkey boiler *3 ft.* — *Height 14 ft.* Material of shell plates *Steel* Thickness *1 1/2" - 1 3/4"* Range of tensile strength *27/32* Descrip. of riveting long. seams *Double lap* Dia. of rivet holes *29/32* Whether punched or drilled *—* Pitch of rivets *2 3/8"*Lap of plating *1 1/2"* Per centage of strength of joint Rivets *69%* Plates *68%* Working pressure of shell by rules *102 lbs.* Thickness of shell crown plates *19/32 - 29/32*Radius of do. *3.6"* No. of Stays to do. *—* Dia. of stays *—* Diameter of furnace Top *3 ft.* Bottom *6 ft.* Length of furnace *8 ft.*Thickness of furnace plates *19/16"* Description of joint *Solid dish* Working pressure of furnace by rules *104 lbs.* Thickness of furnace crown plates *19/16"* Radius of do. *3 ft.* Stayed by *—* Diameter of uptake *15" x 23"* Thickness of uptake plates *9/16"*Thickness of water tube plates *19/16" - 23/32"* For COCHRAN & CO., ANNAN, LIMITED.The foregoing is a correct description, *Harry H. Davies* Managing Director, Manufacturer.During progress of work in shops - *1906 Aug. 24, 29 Sep. 14 Oct. 5 12 19 26 Nov. 2 9 16*

During erection on board vessel - - -

Total No. of visits *10*

Is the approved plan of main boiler forwarded herewith

" donkey "

" "

no

Lloyd's Register

Foundation

W684-0218

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

This boiler has been made under survey the materials & workmanship are of good description & the hydraulic test satisfactory.

Boiler secured in position, its safety valve & stop valve examined internally & the safety valve adjusted under steam.

W. J. D. 25/1/07

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...	£	10 10 0	When applied for.
Special ...	£	...	19
Donkey Boiler Fee ...	£	2 : 2	When received.
Travelling Expenses (if any) £	:	:	19

Glasgow 6 NOV 1906

Committee's Minute

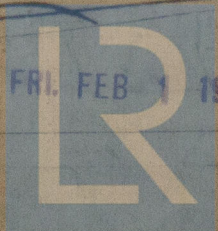
Assigned

Transmit to London.

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

Clyde District

FRI. FEB 1 1907



Lloyd's Register
Foundation