

## REPORT ON BOILERS.

No. 15180.  
THU. 25 NOV. 1915

Date of writing Report 20<sup>th</sup> Nov. 1915 When handed in at Local Office 23/11/1915 Port of West Hartlepool.  
 No. in Survey held at West Hartlepool Date, First Survey 19<sup>th</sup> Jan 1915 Last Survey 20<sup>th</sup> Nov 1915  
 Reg. Book. on the Steel Screw Steamer "Eastgate" (W. Gray & Co's 33861) (Number of Visits 101.) Gross 4276.67 Tons Net 2694.12  
 Master D.S. Ramsdale-88-15 Built at W. Hartlepool By whom built W. Gray & Co., Ltd. When built 11-1915  
 Engines made at W. Hartlepool By whom made Central Marine Engine Works When made 1915.  
 Boilers made at W. Hartlepool By whom made Central Marine Engine Works When made 1915.  
 Registered Horse Power 421 Owners Turnbull Scott Shipping Co. Ltd. Port belonging to London.  
 24 St. Mary, Ave, London, E.C.

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel D. Colville &amp; Sons, J. Spencer &amp; Sons.

(Letter for record S.) Total Heating Surface of Boilers 1217 sq. ft. Is forced draft fitted No. No. and Description of

Boilers One; Cylindrical, single-ended Working Pressure 180 lbs. Tested by hydraulic pressure to 360 lbs. Date of test 20/8/15.

No. of Certificate 3413 Can each boiler be worked separately Area of fire grate in each boiler 33½ sq. ft. No. and Description of

safety valves to each boiler Two (2), Spring Area of each valve 7.07 sq. ins Pressure to which they are adjusted 185 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" Mean dia. of boiler 12'-0" Length 10'-0"

Material of shell plates Steel Thickness 1½" Range of tensile strength 27/30 tons Are the shell plates welded or flanged both

Descrip. of riveting: cir. seams long. seams treble, dble. straps Diameter of rivet holes in long. seams 1½" Pitch of rivets 7¼"

Lap of plates or width of butt straps 15¾" Per centages of strength of longitudinal joint rivets 88. Working pressure of shell by

rules 182 lbs. Size of manhole in shell 16" x 12" Size of compensating ring 32" x 28" x 1½" No. and Description of Furnaces in each

boiler two (2); Leighton's Material Steel Outside diameter 44½" Length of plain part top 10" Thickness of plates crown 9/16"

Description of longitudinal joint welded No. of strengthening rings Corrug. Working pressure of furnace by the rules 186 lbs. Combustion chamber

plates: Material Steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 13/16" Pitch of stays to ditto: Sides 8¾" x 8¾" Back 9" x 8"

Top 8¾" x 8¾" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 181 lbs. Material of stays Steel Diameter at

smallest part 1.508" Area supported by each stay 8¾" x 8¾" Working pressure by rules 192 lbs. End plates in steam space: Material Steel Thickness 1"

Pitch of stays 16" x 15½" How are stays secured dble nuts Working pressure by rules 182 lbs. Material of stays Steel Diameter at smallest part 2.411"

Area supported by each stay 16" x 15½" Working pressure by rules 191 lbs. Material of Front plates at bottom Steel Thickness 1" Material of

Lower back plate Steel Thickness 1¼" Greatest pitch of stays 15" x 8" Working pressure of plate by rules 183 lbs. Diameter of tubes 3¾"

Pitch of tubes 4½" Material of tube plates Steel Thickness: Front 1" Back ¾" Mean pitch of stays 9" Pitch across wide

water spaces 14¼" Working pressures by rules 189 lbs. Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 7¾" x 1¼" Length as per rule 25½" Distance apart 8½" Number and pitch of Stays in each 2, 8¾"

Working pressure by rules 182 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

The foregoing is a correct description,

CENTRAL MARINE ENGINE WORKS.  
W. GRAY & Co. (Ld.) Manufacturer.

Dates of Survey During progress of work in shops - - - See accompanying Is the approved plan of boiler forwarded herewith Yes.  
 while During erection on board vessel - - - machinery report. Total No. of visits

## GENERAL REMARKS (State quality of workmanship, opinions as to class, &amp;c.) Workmanship good.

This Auxiliary Boiler has been built under special survey, also tested by hydraulic pressure to 360 lbs. per  
 sq. in. & found tight & good. And its scantlings & general details are in accordance with those shown on  
 the approved plan. The Boiler has now been efficiently fitted on board the above-named vessel.

Survey Fee ... £ : : When applied for, 191.  
 Travelling Expenses (if any) £ : : When received, 191.

Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 26 NOV. 1915

Committee's Minute

Assigned

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 Lloyd's Register  
 Foundation  
 W324-0114



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March 10 1900

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