

## REPORT ON BOILERS.

Hpl. No. 13097.  
No. 4782Port of MIDDLESBROUGH-ON-TEES.

Received at London Office

MON. 22 OCT 1906

No. in Survey held at Darlington Date, first Survey Sept. 10 Last Survey 19  
 Reg. Book. 8 supp on the Donkey Boiler (No 3022) S. I. Veraston (Number of Visits) 1  
 Master J. W. Weeks Built at W. Kaitiapo By whom built W. Kaitiapo Ltd When built 1906  
 Engines made at W. Kaitiapo By whom made Central Marine & Water when made 1906  
 Boilers made at Darlington By whom made Blake, Brown and Wagon Co when made 1906  
 Registered Horse Power 1 Owners Cherchiston S.S. Co. Ltd. W. Scott & Co Port belonging to W. Kaitiapo

## 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 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 Thickness of plates  
 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 Blake's Patent Manufacturers of steel J. Spencer & Sons Ltd  
 Made at Darlington By whom made Blake Boiler Wagon & Eng Co. When made 1906 Where fixed W. Kaitiapo Working pressure 80 lb  
 tested by hydraulic pressure to 160 lb Date of test 29-9-06 No. of Certificate 3779 Fire grate area 28 ft<sup>2</sup> Description of safety valves Spring  
 No. of safety valves 2 Area of each 7070 Pressure to which they are adjusted 80 lb If fitted with easing gear Yes If steam from main boilers can  
 enter the donkey boiler Yes Dia. of donkey boiler 7'-6 1/8" Length 15'-0" Material of shell plates Steel Thickness 3/32" Range of tensile  
 strength 27/32 Descrip. of riveting long. seams SR 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 83.5 Working pressure of shell by rules 80 lb Thickness of shell crown plates 3/32"  
 Radius of do. 3'-9" No. of Stays to do. ✓ Dia. of stays ✓ Diameter of furnace Top 3'-9" Bottom 6'-2" Length of furnace 4'-8 3/4"  
 Thickness of furnace plates 5/8" Description of joint SR Lap Working pressure of furnace by rules 88 lb Thickness of furnace crown  
 plates Top 4 1/8" Radius of do. 3'-9" Stayed by ✓ Diameter of uptake tubes 2 1/2" Thickness of uptake plates Front 1/16"  
Back 1/32" Pitch of tubes Vertically 7 1/4" Diagonally 4 1/32"  
 Thickness of water tubes 1/16"

The foregoing is a correct description,  
FOR BLAKE BOILER, WAGON & ENGINEERING CO. LIMITED.

MANUFACTURER.

MANAGING DIRECTOR.

Dates of Survey while building  
 During progress of work in shops -- 1906 Sept 10, 14, 24, 25, 29  
 During erection on board vessel --  
 Total No. of visits

Is the approved plan of main boiler forwarded herewith

" donkey "

Lloyd's Register

009152-009160-0015



**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.

This boiler has now been efficiently fitted on board

Since then

Certificate (if required) to be sent to the Committee's Minute.

The amount of Entry Fee...	£	:	:	When applied for,
Special ...	£	:	:	4.10.1906
Donkey Boiler Fee ...	£ 2	:	2	When received,
Travelling Expenses (if any) £		:		15.10.06

Committee's Minute

Assigned

TUES. 23 OCT 1906

R D Shilston

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



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Foundation