

## REPORT ON BOILERS.

Mdb No. 4695  
Std. No. 22944  
MON. 17 SEP 1906Port of MIDDLESBROUGH-ON-TEES.

Received at London Office

No. in Survey held at Darlington  
Reg. Book.Date, first Survey May 24Last Survey 10<sup>th</sup> September 1906(Number of Visits 32)Gross 2462.82  
Tons Net 1568.04on the Donkey Boiler No. 3015 for S.P. Austin & Sons S/S 237.  
S.S. LADY CORY WRIGHTMaster John Thompson Built at SunderlandBy whom built S.P. Austin & SonsWhen built 1906Engines made at SunderlandBy whom made G. Clark & Co.When made 1906Boilers made at DarlingtonBy whom made Blake Boiler, Wagon & Eng<sup>g</sup> Co<sup>ys</sup> Ltd.When made 1906Registered Horse Power 251Owners W. Cory & Son Ltd.Port belonging to London

## 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

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

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<sup>g</sup> Co<sup>ys</sup> Ltd. When made 1906 Where fixed StockholdWorking pressure 90 tested by hydraulic pressure to 180 No. of Certificate 3721 Fire grate area 25 Description of safety valves direct springNo. of safety valves two Area of each 4.91 Pressure to which they are adjusted 90 lbs If fitted with easing gear yes If steam from main boilers canenter the donkey boiler no Dia. of donkey boiler 7'-0" Length 15'-0" Material of shell plates Steel Thickness 1/2" Range of tensilestrength 27/32 Descrip. of riveting long. seams DR Lap Dia. of rivet holes 15/16 Whether punched or drilled Drilled Pitch of rivets 3"Lap of plating 2 1/8" Per centage of strength of joint Rivets 7/8" Working pressure of shell by rules 94.7 lbs Thickness of shell crown plates 1/2"Radius of do. 3'-6" No. of Stays to do. ✓ Dia. of stays ✓ Diameter of furnace Top 3'-6" Bottom 5'-8 1/4" Length of furnace 4'-4"Thickness of furnace plates 5/8" Description of joint S.P. Lap Working pressure of furnace by rules 99.4 lbs Thickness of Comb. Chamberplates 1 1/16" Stayed by ✓ Diameter of 2 1/2" Thickness of uptake plates 3/32 PITCH OF 3 5/8"Back 1 9/32The foregoing is a correct description,  
James Blake  
FOR BLAKE BOILER, WAGON & Manufacturer.

ENGINEERING CO. LIMITED.

MANAGING DIRECTOR.

1906: May 24.31. June 7.13.15.21.26. July 4.11

Dates of Survey while building { During progress of work in shops - - }  
{ During erection on board vessel - - - }  
Total No. of visits

Is the approved plan of main boiler forwarded herewith

" " " donkey " " yes

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Lloyd's Register  
Foundation  
W830-0153



**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.  
 Fitted on board, secured in place, & tested under steam,  
 now eligible for record in Register Book. E.J.S.

Certificate (if required) to be sent to

The amount of Entry Fee...	£	:	:	When applied for.
Special ... ..	£	:	:	19
Donkey Boiler Fee ...	£	2	2	When received.
Travelling Expenses (if any) £	:	8	0	19

R.D. Philston

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

*H.C. Hudson*

Committee's Minute TUES. 18 SEP 1906

Assigned



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