

REPORT ON BOILERS.

Mkt No. 4695
Std. No. 22944
MON. 17 SEP 1906

Port of MIDDLESBROUGH-ON-TEES.

Received at London Office

No. in Survey held at Darlington Date, first Survey May 24 Last Survey 10th September 1906
 Reg. Book. Donkey Boiler No 3015 for S.P. Austin & Sons S/S 237. (Number of Visits 32)
 on the S.S. LADY CORY WRIGHT Tons { Gross 2462.82
 Master John Thompson Built at Liverpool By whom built S.P. Austin & Sons When built 1906
 Engines made at Liverpool By whom made G. Clark & Co. when made 1906
 Boilers made at Darlington By whom made Blake Boiler, Wagon & Eng^g Co^{ys} Ltd when made 1906
 Registered Horse Power 251 Owners 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 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
 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^g Co^{ys} Ltd When made 1906 Where fixed Stokehold
 Working pressure 90 tested by hydraulic pressure to 180 No. of Certificate 3721 Fire grate area 25 sq ft Description of safety valves direct spring
 No. of safety valves two Area of each 4.91 sq ft Pressure to which they are adjusted 90 lbs If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler No Dia. of donkey boiler 7'-0" Length 15'-0" Material of shell plates Steel Thickness 1/2" Range of tensile strength 27/32 Descrip. of riveting long. seams IR Lap Dia. of rivet holes 15/16" Whether punched or drilled Drilled Pitch of rivets 3"
 Lap of plating 2 1/2" 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. Chamber plates 1 1/16" Stayed by ✓ Diameter of 7/8" TUBE Front 3/32" PITCH OF 3 5/8" Thickness of BACK plates 1/32" Thickness of water tubes 3 5/8"

The foregoing is a correct description,
James Blake
 FOR BLAKE BOILER, WAGON & Eng^g Co^{ys} Ltd. 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,
 how eligible for record in Register Book. E.J.

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

Null be
R.D. Philston
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

H.P. Hudson

Committee's Minute **TUES. 18 SEP 1906**
 Assigned

