

REPORT ON BOILERS.

No. 9182
TUE. NOV. 11. 1913

Date of writing Report 8. 11. 13 10 When handed in at Local Office 8. 11. 13 Port of MIDDLESBROUGH-ON-TEES.

No. in Survey held at *Barlington* Date, First Survey 24th July Last Survey 31st October 1913
Reg. Book. on the *Donkey Boiler No. 3230 for Stock s/s. Arkleside* (Number of Visits 7) Gross Tons Not

Master *Donkey* Built at *Barlington* By whom built *Blake Boiler, Wagon & Eng Co. Ltd.* When built 1913
Boilers made at *Barlington* By whom made *Blake Boiler, Wagon & Eng Co. Ltd.* When made 1913

Owners Port belonging to

VERTICAL DONKEY BOILER— No. *One* Description *Blake Patent* Manufacturers of steel *J. Spencer Horn Ltd.*
Made at *Barlington* By whom made *Blake Boiler, W. & E. Co. Ltd.* When made 1913 Where fixed *Stock s/s.* Working pressure *100 lbs*
tested by hydraulic pressure to *200* Date of test *21. 10. 13* No. of Certificate *5177* Fire grate area *15 1/2* Description of safety valves *Spring*
No. of safety valves *2* Area of each *5.14* Pressure to which they are adjusted *105* If fitted with easing gear *Yes* If steam from main boilers can enter the donkey boiler *No* Dia. of donkey boiler *5'-6"* Length *12'-6"* Material of shell plates *Steel* Thickness *7/16"* Range of tensile strength *28-32* Descrip. of riveting long. seams *BR. Lap* Dia. of rivet holes *13/16"* Whether punched or drilled *Drilled* Pitch of rivets *2 5/8"*
Lap of plating *4 1/4"* Per centage of strength of joint Rivets *76* Plates *69* Working pressure of shell by rules *106 lbs* Thickness of shell crown plates *7/16"*
Radius of do. *2'-9"* No. of Stays to do. ☒ Dia. of stays ☒ Diameter of furnace Top *2'-9"* Bottom *4'-5 1/2"* Length of furnace *3'-2 1/2"*
Thickness of furnace plates *1/2"* Description of joint *Welded* Working pressure of furnace by rules *104 lbs* Thickness of furnace crown plates *Top 5/8"* Radius of do. *2'-9"* Stayed by ☒ Diameter of tubes *2 1/2"* Thickness of tube plates *Front 11/16"* Back *29/32"*
Thickness of water tubes

FOR & ON BEHALF OF
THE BLAKE BOILER, WAGON & ENGINEERING CO. LIMITED
James Blake Manufacturer.
MANAGING DIRECTOR

Dates of Survey { During progress of work in shops - *July 24 Aug. 13. 29. Sep. 17. 25. Oct. 9. 21.*
while building { During erection on board vessel - -
Total No. of visits *7.*

Is the approved plan of boiler forwarded herewith *yes*

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

This boiler has been constructed under Special Survey, is of good material and workmanship, and has been tested by hydraulic pressure with satisfactory results.

*Examined under Steam and found Satisfactory
Safety valves adjusted to the working pressure.*

J. V. Findlay

SURVEY REQUEST
NO. 830 ATTACHED.

Survey Fee £ *2 : 2 :* When applied for, *MONTHLY A/c.*
Travelling Expenses (if any) £ *8/8* When received, *19*

Committee's Minute *FRI. JAN. 8 1915*

Assigned

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