

REPORT ON BOILERS.

No. 5581

Received at London Office **FRI. 25 SEP 1908**

Date of writing Report 10 When handed in at Local Office 24.9.04 Port of WIDDLESBROUGH-ON-TERR.

No. in Survey held at Darlington Date, First Survey 13th Feb Last Survey 17th Sept. 1908

Reg. Book. 488 on the Donkey boiler (No 3087) for Fairly furnished by game S.S. Otter Tons } (Gross) (Net)

Master Boaker Built at Darlington By whom built Blake Boiler Works Ltd When built 1908

Boilers made at Darlington By whom made Blake Boiler Works Ltd When made 1908

Owners J. C. Knudsen Port belonging to Porsgrund

VERTICAL DONKEY BOILER — No. One Description Blake Patent Manufacturers of steel J. Hancock & Son Ltd.

Made at Darlington By whom made Blake B. W & Co Ltd When made 1908 Where fixed Stitchell Working pressure 100

tested by hydraulic pressure to 200 Date of test 26/3/08 No. of Certificate 4115 Fire grate area 22 1/2 Description of safety valves Spring loaded 2,

No. of safety valves Two Area of each 4.91 Pressure to which they are adjusted 100 lbs If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler No

Dia. of donkey boiler 6'-6" Length 13'-0" Material of shell plates Steel Thickness 5" Range of tensile strength 28/32 Descrip. of riveting long. seams DRL Dia. of rivet holes 1 3/8" Whether punched or drilled □ Pitch of rivets 2 7/8"

Lap of plating 4 1/2" Per centage of strength of joint Rivets 68.7 Working pressure of shell by rules 100 Thickness of shell crown plates 1/2"

Radius of do. 3'-3" No. of Stays to do. — Dia. of stays — Diameter of furnace Top 3'-3" Bottom 5'-3" Length of furnace 4'-0"

Thickness of furnace plates 1 1/2" Description of joint welded Working pressure of furnace by rules 103 Thickness of furnace crown plates 1/8" Radius of do. 3'-9" Stayed by — Diameter of tubes 2 1/2" Thickness of tubes 5 3/4"

Thickness of water tubes 3 5/8" x 2 1/2" Thickness of uptake plates 3/4"

The foregoing is a correct description,
 For **BLAKE BOILER, WAGON & ENGINEERING CO. LIMITED**, Manufacturer.
W. W. Jones
 SECRETARY.

Dates { During progress of work in shops - - } 1908. Feb 13. 20. 24. Mar 5. 13. 19. 26

{ During erection on board vessel - - - } Sept 1. 8. 10. 14. 14

{ Total No. of visits } 12

Is the approved plan of boiler forwarded herewith Yes.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special power. The material and workmanship are good & efficient and when started by hydraulic pressure was found tight & satisfactory. It has now been fitted and secured on board in accordance with the Rules.

Survey Fee £ 2 : 2 : 0 When applied for, 4. 5 1908

Travelling Expenses (if any) £ : 10 : 10 When received, 24 - 6 1908

Committee's Minute Assigned

TUES. 29 SEP 1908

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

