

REPORT ON BOILERS.

Sta Rpt. No. 25479

No. 7408

Received at London Office SAT. JUN. 8 - 1912 THE NOV. - 5. 1912

Date of writing Report 19 When handed in at Local Office 7. 6 19 Port of MIDDLESBROUGH OF TEES
No. in Survey held at Darlington Date, First Survey 11. 11. 1911 Last Survey 17. 11. 1912
Reg. Book. on the Donkey Boiler No. 3192 for Messrs J. Brown & Sons SS No. 148 - Tons Gross 1167 Net 667
Master J. S. Wear Built at Sunderland By whom built J. Brown & Sons Ltd When built 1912
Boilers made at Darlington By whom made Blake Boiler, Wagon & Eng. Co. Ltd When made 1912
Owners Witherington & Everett Port belonging to Newcastle-on-Tyne

VERTICAL DONKEY BOILER— No. One Description Blake Patent Manufacturers of steel J. Spencer & Sons Ltd
Made at Darlington By whom made Blake Boiler, W. & E. Co. Ltd When made 1912 Where fixed St. Helens Working pressure 90 lbs
Tested by hydraulic pressure to 180 Date of test 17. 5. 12 No. of Certificate 4876 Fire grate area 22 ft Description of safety valves Direct spring
No. of safety valves 6 Area of each 11.0 sq. ft Pressure to which they are adjusted 93 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'-6" Material of shell plates Steel Thickness 15" Range of tensile strength 28-32 Descrip. of riveting long. seams L.R. Lap Dia. of rivet holes 13/16 Whether punched or drilled Drilled Pitch of rivets 2 7/8
Lap of plating 4 1/4 Per centage of strength of joint Rivets 73.6 Plates 68.3 Working pressure of shell by rules 99 lbs Thickness of shell crown plates 15/32
Radius of do. 3'-3" No. of Stays to do. 9 Dia. of stays 1 1/2 Diameter of furnace Top 3'-3" Bottom 5'-2 1/2 Length of furnace 3'-9"
Thickness of furnace plates 7/16 Description of joint Welded Working pressure of furnace by rules 98 lbs Thickness of furnace crown plates 15/32 Radius of do. 3'-3" Stayed by 4 Stays Diameter of tubes 2 1/2 Thickness of tube plates 1/2 Front 23/32 Back 15/16
Thickness of water tubes 3 5/8 Vert. 4'-4" Diag.

The foregoing is a correct description.
FOR & ON BEHALF OF THE BLAKE BOILER, WAGON & ENGINEERING CO. LIMITED, Manufacturer.
James Blake, Managing Director.

Dates During progress of work in shops - - 10. 12. 11. 21. 29. Apr. 19. 25. May 3. 10. 17.
Survey while building During erection on board vessel - - -
Total No. of visits (11) 22. 28. 31 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. It has been securely fitted on board, mounted & its safety valve has been adjusted under steam.

SURVEY NO. 136 REQUEST ATTACHED.

MONTHLY A/c.

Survey Fee ... £ 2 : 2 : 1 When applied for, 19
Travelling Expenses (if any) £ : 10/10 When received, 19

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

Committee's Minute FRI. NOV. - 8. 1912
Assigned

