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REPORT ON BOILERS.

No. 9214.

WED.-25 FEB. 1916

Received at London Office

Date of writing Report 7th August 1916 When handed in at Local Office January 31 1916 Port of Middlesbrough
 No. in Survey held at Darlington Date, First Survey March 12 1915 Last Survey January 10 1916
 Reg. Book. on the Donkey Boiler No. 3284 L.S. "Horden" (Number of Visits 23) Gross 2677 Tons Net 1607
 Master Donkey Built at Newcastle By whom built Wood, Skinner & Co. Ld. When built 1916
 Boilers made at Darlington By whom made Blake Boiler, Wagon & Eng. Co. Ld. When made 1916
 Owners The Burnett Steam Ship Co. Ld. Port belonging to Newcastle

VERTICAL DONKEY BOILER— No. One Description Blake Patent Manufacturers of steel J. Spencer & Sons Ld.
 Made at Darlington By whom made Blake Boiler, Wagon & Eng. Co. Ld. When made 1916 Where fixed on deck Working pressure 100 lb.
 Tested by hydraulic pressure to 200 Date of test 10.1.16 No. of Certificate 5599 Fire grate area 166 Description of safety valves Spring
 No. of safety valves 2 Area of each 4.92 Pressure to which they are adjusted 105 lb. If fitted with easing gear yes If steam from main boilers can enter the donkey boiler no Dia. of donkey boiler 6'-0" Length 12'-0" Material of shell plates Steel Thickness 15" Range of tensile strength 28-32 Descrip. of riveting long. seams DR. Lap Dia. of rivet holes 13" Whether punched or drilled drilled Pitch of rivets 2 3/4"
 Lap of plating 4 1/4" Per centage of strength of joint Rivets 68.6 Working pressure of shell by rules 107 lb. Thickness of shell crown plates 3 1/2" Plates 70.4
 Radius of do. 3'-0" No. of Stays to do. 19 Dia. of stays 1 1/2" Diameter of furnace Top 3'-0" Bottom 4'-9" Length of furnace 3'-6 1/2"
 Thickness of furnace plates 3 1/2" Description of joint Welded Working pressure of furnace by rules 120 lb. Thickness of furnace crown plates Top 16" Radius of do. 3'-0" Stayed by yes Diameter of tubes 2 1/2" Thickness of tube plates front 4" Back 2 1/2"
 Thickness of water tubes 3 1/2" Vert. 4.4 Diag. 4.4

SURVEY REQUEST
 NO. 1143 ATTACHED.

FOR AND ON BEHALF OF
 THE BLAKE BOILER, WAGON & ENGINEERING CO. LIMITED
 The foregoing is a correct description.
Herbert J. Blake Manufacturer.

Dates of Survey while building
 During progress of work in shops— 1915 Mar 12. 25. 26. May 5. 13. 21. Jun 16. 25. Jul 7. 16. 24. Aug 10. 27. Sep 7. 23. Oct 8. 18. 29. Nov 15. 30. Dec 13.
 During erection on board vessel — 28. 1916 Jan 10 See also Newcastle Report 69063
 Total No. of visits 23 Is the approved plan of boiler forwarded herewith Yes, please return for duplicate

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.

Survey Fee ... £ 2 : 2 : When applied for, Monthly 9/6
 Travelling Expenses (if any) £ : 13 : When received, 19

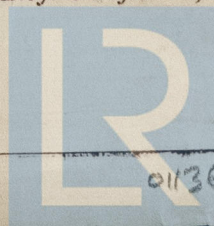
Herbert J. Blake & Thomas Field
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

TUE. 22. AUG. 1916

Assigned

See minute Newcastle Report 69063



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