

Rpt. 5b.

# REPORT ON BOILERS.

Mdd. F.E. Rpt No 8926.  
No. 8858.

Received at London Office FRI. MAR. 5-1915  
FRI. APR. 30-1915

Date of writing Report 10 When handed in at Local Office Mar. 4 1915 Port of Middlesbrough  
No. in Survey held at Darlington Date, First Survey September 15 1914 Last Survey January 28 1915  
Reg. Book. on the Donkey Boiler No. 3270 S.S. "Ellawood" (Number of Visits 15) Tons Gross Net  
Master Built at Stockton By whom built Ropner & Sons Ltd. (SS No. 500) When built 1915  
Boilers made at Darlington By whom made Blake Boiler, Wagon & Eng. Co. Ltd. When made 1915  
Owners Port belonging to

**VERTICAL DONKEY BOILER**— No. One Description Blake Patent Manufacturers of steel J. Spencer & Sons Ltd.  
Made at Darlington By whom made Blake Boiler, W. & Eng. Co. Ltd. When made 1915 Where fixed Stakehold Working pressure 120 lb.  
tested by hydraulic pressure to 240 Date of test 28.1.15 No. of Certificate 5455 Fire grate area 32 sq. ft. Description of safety valves direct spring  
No. of safety valves 2 Area of each 7.07 Pressure to which they are adjusted 125 If fitted with easing gear yes If steam from main boilers can enter the donkey boiler no Dia. of donkey boiler 8'-0" Length 17'-3" Material of shell plates Steel Thickness 3/32 Range of tensile strength 28-32 Descrip. of riveting long. seams J.R. Lap Dia. of rivet holes 7/16 Whether punched or drilled drilled Pitch of rivets 3 3/4  
Lap of plating 6 3/8 Per centage of strength of joint Rivets 65.26 Working pressure of shell by rules 132 lb. Thickness of shell crown plates 3/32  
Radius of do 3'-10 1/16 No. of Stays to do 2 plate Dia. of stays 1 1/2 x 3/4 Diameter of furnace Top 4'-0" Bottom 6'-5" Length of furnace 4'-4"  
Thickness of furnace plates 7/16 Description of joint welded Working pressure of furnace by rules 124 lb. Thickness of furnace crown plates 3/32 Radius of do 4'-0" Stayed by 2 plate stay Diameter of uptake tubes 2 3/4 Thickness of uptake plates Front 1 1/16 Back 1 1/32  
Thickness of water tubes 4.8" Vert. 4.8" Diag. SURVEY REQUEST NO. 1050 ATTACHED. The foregoing is a correct description. Herbert J. Blake Manufacturer.

Dates of Survey while building During progress of work in shops - 1914 Sep. 15, 21, 30 Oct. 13, 21, 23, 29 Nov. 5, 12, 20 Dec. 9, 21, 29 1915 Jan. 22, 28  
During erection on board vessel - -  
Total No. of visits 15 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.

This boiler has now been satisfactorily secured on board, examined under steam and safety valves adjusted.

Wm Morrison  
19.4.15

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

J. K. ...

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

Committee's Minute

TUE. MAY. 4-1915

Assigned

All minute on file attached



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