

REPORT ON BOILERS.

No. 14587.

Received at London Office

THU. OCT. 15. 1914

Date of writing Report 12<sup>th</sup> Oct. 1914 When handed in at Local Office 13<sup>th</sup> Oct. 1914 Port of Limerick

No. in Survey held at Invermouth Date, First Survey September 4 Last Survey October 7 1914  
Reg. Book. on the Donkey Boiler No 315 for Sunan S.B. Co 271 S.S. "RAY" (Number of Visits 3) Tons Gross Net

Master Built at By whom built When built  
Boilers made at Invermouth By whom made J. Black & Sons When made 1914  
Owners Port belonging to

VERTICAL DONKEY BOILER— No. one Description Vertical Manufacturers of steel J. & C. L. & Co. Ltd. Limerick  
Made at Invermouth By whom made J. Black & Sons When made 7.10.14 Where fixed stokehold Working pressure 100 lbs  
tested by hydraulic pressure to 200 lbs Date of test 7.10.14 No. of Certificate 719 Fire grate area 15 sq ft Description of safety valves Spring  
No. of safety valves 1 Area of each 7.07 sq ft Pressure to which they are adjusted 95 lbs If fitted with easing gear yes If steam from main boilers can enter the donkey boiler no Dia. of donkey boiler 5.0 Length 10.0 Material of shell plates S Thickness 13 Range of tensile strength 27-32 Descrip. of riveting long. seams lap butt Dia. of rivet holes 13 Whether punched or drilled drill Pitch of rivets 38  
Lap of plating 5 1/2 Per centage of strength of joint Rivets 88 Plates 74 Working pressure of shell by rules 113 Thickness of shell crown plates 9/16  
Radius of do. 5.0 No. of Stays to do. none Dia. of stays Diameter of furnace Top 3-10 Bottom 4-5 Length of furnace 5-7  
Thickness of furnace plates 7/16 Description of joint lap single Working pressure of furnace by rules 110 Thickness of furnace crown plates 5/8 Radius of do. 4-9 Stayed by Disked Diameter of uptake 14 Thickness of uptake plates 7/16  
Thickness of water tubes 3/8

The foregoing is a correct description,  
J. Black & Sons Manufacturer.

Dates of Survey { During progress of work in shops - 1914 September 4-28 October 7  
while building { During erection on board vessel -  
Total No. of visits 3 Is the approved plan of boiler forwarded herewith no

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

This donkey boiler has been built under special survey. The materials and workmanship are sound and good, and on completion it was tested by hydraulic pressure to twice the working pressure and found satisfactory.

Survey Fee ... £ 2 : 2 : } When applied for, Oct. 20<sup>th</sup> 1914  
Travelling Expenses (if any) £ 2 : 9 : } When received, Oct. 29<sup>th</sup> 1914

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

Committee's Minute FRI. FEB. 5-1915

FRI. FEB. 26. 1915

Assigned