

REPORT ON BOILERS.

No. 77935.

Received at London Office
 Date of writing Report 3rd June 1924 When handed in at Local Office 3rd June 1924 Port of NEWCASTLE-ON-TYNE JUN. 5 1924
 No. in Survey held at Gateshead on Tyne Date, First Survey Jan 8th Last Survey 3rd June 1924
 Reg. Book. on the (Number of Visits 32 Gross Tons Net
 Master Built at Dundee By whom built Caledon S.B. & Co. Ltd. When built
 By whom made Gateshead on Tyne By whom made Clarke Chapman & Co. Ltd. { 2625 When made 1924
 Port belonging to

VERTICAL DONKEY BOILER— No. one Description Dry Back Manufacturers of steel J. Spencer & Sons Ltd
 Made at Gateshead By whom made Clarke Chapman & Co. Ltd. When made 1924 Where fixed Stokehold Working pressure 100 lbs
 Tested by hydraulic pressure to 200 Date of test 30/5/24 No. of Certificate 9829 Fire grate area 27 sq ft Description of safety valves Direct spring
 No. of safety valves 2 Area of each 3.980 Pressure to which they are adjusted 105 lbs If fitted with easing gear Yes If steam from main boilers can
 enter the donkey boiler No Dia. of donkey boiler 6-11" Length 15-0" Material of shell plates Steel Thickness 1/2" Range of tensile
 strength 24/32 Descrip. of riveting long. seams 2-R. Lap. Dia. of rivet holes 7/8" Whether punched or drilled drilled Pitch of rivets 2 1/4"
 Thickness of plating 4 3/16" Per centage of strength of joint 61 Rivets 68-1 Working pressure of shell by rules 100 lbs Thickness of shell crown plates 11/16"
 Radius of do. 5-0" No. of Stays to do. none Dia. of stays 3" Radius of furnace Top 3-3" Bottom 7 5/4" Length of furnace 8 ft 6 in
 Thickness of furnace plates 9/16" Description of joint Single riveted Working pressure of furnace by rules 100 lbs Thickness of furnace crown
 plates 9/16" Radius of do. 39" Stayed by Port sphere Diameter of uptake 10-5 1/4" Thickness of uptake plates 9/16"
 Thickness of water tubes 5/16" 3/8" plain 11. 10 5/8"
 The foregoing is a correct description.
W. W. W. W. W. Manufacturer.
 Director

Dates During progress of work in shops— Jan 8. 14. 15. 17. 23. 28. 29 Feb. 7. 14. 20 Mar. 6. 14. 21. 26 Apr. 1. 8. 12. 14. 17. 23. 30
 Survey while building During erection on board vessel— May 2. 5. 6. 13. 16. 22. 23. 28. 30 Jun 3
 Total No. of visits 32 Is the approved plan of boiler forwarded herewith yes.

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 of good quality, the safety valves, chest, stop valve (non return) and other mountings were tested on the boiler to 200 lbs per sq in and were found tight & sound. Steam was raised in the makers works and boiler found tight.
This boiler is to be forwarded to the Caledon S.B. & Eng Co. Ltd. Dundee.
Boiler plan and invoices of steel now forwarded

This Boiler has now been fitted on board in an efficient manner, tried under working conditions and found satisfactory. The safety valves were adjusted under steam to the above pressure.

Survey Fee ... £ 4 : 4 : When applied for, Monthly 4c.
 Travelling Expenses (if any) £ — : When received, 19

Committee's Minute
 Assigned

FRI. 26 SEP 1924

FRI. 3 OCT 1924

George Murdoch & J. Sellers.
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.