

29 OCT 1936

Rpt. 5e.

## REPORT ON BOILERS.

Sld. No. 31950  
Sld. No. 57332  
12 AUG 6

Date of writing Report 21-7-36 When handed in at Local Office 7. 8. 36 Port of Glasgow  
No. in Survey held at Annan Date, First Survey 19. 3. 36 Last Survey 30-7-1936  
Reg. Book. Boiler No. 13184. S/S NORTHWOOD (Number of Visits 9) Gross Tons Net Tons  
Master Built at Burntisland By whom built Burntisland S.B. Co. Ltd. When built 1936  
Boilers made at By whom made When made  
Owners J. Constantine S.S. Line Ltd. Port belonging to Middlesboro

VERTICAL DONKEY BOILER— No. 1 Description Cochran Manufacturers of steel Steel Co. S. Land  
Made at Annan By whom made Cochran & Co. Annan When made 1936 Where fixed Working pressure 125  
tested by hydraulic pressure to 238 Date of test 30-7-36 No. of Certificate 19775 Fire grate area 16.765 Description of safety valves D. S. L.  
No. of safety valves 2 Area of each 3.14 Pressure to which they are adjusted 125 Description of easing gear If fitted with easing gear If steam from main boilers can enter the donkey boiler No Diameter of donkey boiler 5'-6" Length 12'-3" Material of shell plates S Thickness 15/32 - 17/32  
Range of tensile strength 28-32 Description of riveting long. seams D. R. L. Diameter of rivet holes 27/32 Whether punched or drilled drilled Pitch of rivets 2.775, 2.735, 2.6875 Lap of plating 4 1/4 Percentage of strength of joint Rivets 70.5 Working pressure of shell by rules 130 Thickness of shell crown plates 7/16 - 25/32 Radius of do. 2'-9" No. of stays to do. 4 Diameter of stays 1 1/2 Diameter of furnace—Top Bottom 4'-9" Length of furnace 3'-4 1/8 Thickness of furnace side plates 1/2 Description of joint seamless Working pressure of furnace by rules 144.8 Thickness of Ogee ring 25/32 Working pressure of Ogee ring by rules 135.9 Thickness of furnace crown plates 1/2 Radius of do. 2'-4 1/2 Stayed by hemispherical Diameter of uptake 13" x 19 1/2 Thickness of uptake plates 1/2 Thickness of tube plates front 3/16 back 1/8 Mean pitch of stay tubes in nest 10.4 Pitch in outer vertical rows 8  
Diameter of tube holes FRONT stay 2 1/16 BACK stay 2 1/2 Working pressure of tube plates by rules F. 1295, B. 145 Tubes: Material Iron  
External diameter stay 2 1/2 plain 2 9/16 Thickness stay 11/32 plain 11 W.C. No. of threads per inch 9 Pitch of tubes 4" x 3 1/2  
Working pressure by rules 125 Manhole compensation; Size of opening in shell plate 16" x 12" Section of compensating ring 6" x 11/16 No. of rivets and diameter of rivet holes 36 - 27/32 Outer row pitch at ends 3.65

For COCHRAN &amp; CO. ANNAN, LIMITED

The foregoing is a correct description,

T. Foster

Works Manager.

Manufacturer.

Dates of Survey while building  
During progress of work in shops— 1936 Mar.: 19. 26 Apr.: 16. 30 June.: 15. 18. 25  
During erection on board vessel— July.: 2. 30  
Total No. of visits 9

Drawing No. 21071

Is the approved plan of boiler forwarded herewith Copy.  
See Boiler No. 9881 See Report No. 46097.

## GENERAL REMARKS

(State quality of workmanship, opinions as to class, &amp;c.)

This boiler has been built under special survey in accordance with the approved plan and the Society's Rules and requirements the materials and workmanship are good.

To the order of The North Eastern Marine Eng'g Co. Ltd. Contract No. 2855.

7/8/36. This boiler has now been securely fixed on board the vessel, examined under steam and its safety valves have been adjusted to the working pressure.

Survey Fee ... £ 44 : 4 : 7  
Travelling Expenses (if any) £ : : 7

When applied for 19  
When received 19

MONTHLY ACCOUNT

Committee's Minute GLASGOW 11 AUG 1936

Assigned TRANSMIT TO LONDON

003788-003799-0124



