

REPORT ON BOILERS.

No. 49221

13 NOV 1929

Date of writing Report 10 When handed in at Local Office 15. 6. 1929 Port of Glasgow
 No. in Reg. Book. Survey held at Annan. Date, First Survey 3. 4. 29 Last Survey 10-5-1929
 on the BOILER No 10912. RANGITANE (Number of Visits 6) Gross 16733 Tons Net 10311
 Master Built at Clydebank By whom built John Brown & Co. When built 1929
 Boilers made at Annan. By whom made Messrs. Cochran & Co. Annan Ltd. When made 1929
 Owners New Zealand Shipping Co. Port belonging to Plymouth

VERTICAL DONKEY BOILER— No. One. Description Vertical. Manufacturers of steel D. Colville & Sons Ltd.
 Made at Annan. By whom made Cochran & Co. Annan Ltd. When made 1929. Where fixed Working pressure 100.
 Tested by hydraulic pressure to 200. Date of test 10-5-29. No. of Certificate 18287. Fire grate area ✓ Description of safety valves Enclaved Spring
 No. of safety valves 2 Area of each 3.14 Pressure to which they are adjusted If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler No Diameter of donkey boiler 6'-0" Length 14'-6" Material of shell plates Steel Thickness 7/16, 3/32, 7/16.
 Range of tensile strength 28-32. Description of riveting long. seams D.R. lap. Diameter of rivet holes 3/8". Whether punched or drilled Drilled Pitch of rivets 2-6 3/8, 2-6 9/16, 2-6 3/4. Lap of plating 3/8". Per centage of strength of joint Rivets 65.5. Plates 70.8. Working pressure of shell by rules 105.5. Thickness of shell crown plates 13/32, 13/16. Radius of do. 3'-0". No. of stays to do. ✓ Diameter of stays. ✓ Diameter of furnace—Top ✓ Bottom 5'-0". Length of furnace 3'-5 1/2". Thickness of furnace side plates ✓ Description of joint. ✓ Working pressure of furnace by rules 137.5. Thickness of Ogee ring 13/16". Working pressure of Ogee ring by rules 101.2. Thickness of furnace crown plates 1/2". Radius of do. 2'-6". Stayed by Hemisphere. Diameter of uptake 13" x 19 1/2". Thickness of uptake plates 9/16". Thickness of tube plates front 25/32" back 21/32" Mean pitch of stay tubes in nest 11.34" Pitch in outer vertical rows 8".
 Diameter of tube holes FRONT stay 2 1/8" plain 2 3/8" BACK stay 2 1/8" plain 2 3/8". Working pressure of tube plates by rules F 104.7. B 111.5. Tubes: Material Wrought iron.
 External diameter stay 2 1/2" plain 2 3/4". Thickness stay 11/32" plain 11. L.S.G. No. of threads per inch 9. Pitch of tubes 3 7/8" x 4".
 Working pressure by rules 125. Manhole compensation: Size of opening in shell plate 16" x 12". Section of compensating ring 5" x 13/16". No. of rivets and diameter of rivet holes 40 off 25/32". Outer row pitch at ends 4".

The foregoing is a correct description.

FOR COCHRAN & CO., ANNAN, LIMITED

Walter Deakin Manufacturer.

Drawing No. 16347.

Dates of Survey while building
 During progress of work in shops - 1929 Apr 3. 15. 19. 26 May 3. 10
 During erection on board vessel - - -
 Total No. of visits 6

Copy of Is the approved plan of boiler forwarded herewith Yes.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under survey in accordance with the Rules and approved plan. The materials and workmanship are good. This boiler has been built to the order of Messrs. John Brown & Co. Ltd. Clydebank for their No. 522.

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

MONTHLY ACCOUNT

Committee's Minute GLASGOW 21 MAY 1929
 Assigned TRANSMIT TO LONDON

John D. Macdonald 2019
 Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation

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