

REPORT ON BOILERS.

No. 48621
21 NOV 1928

Writing Report ... When handed in at Local Office 19. 11. 1928 Port of Glasgow.
 in Survey held at Annan Date, First Survey Oct. 23rd 1928 Last Survey 16th Nov 1928
 Book. on the BOILER No 11094 "Manunda" (Number of Visits 3) Tons { Gross Net
 Built at Dalnair By whom built W. Beardmore & Co. When built 1929
 Made at Annan By whom made Messrs Cochran & Co Annan Ltd When made 1928
 Port belonging to

VERTICAL DONKEY BOILER— No. One Description Vertical Manufacturers of steel D. Colville & Sons
 Made at Annan By whom made Cochran & Co Annan When made 1928 Where fixed Working pressure 100 lbs
 Tested by hydraulic pressure to 200 lbs Date of test 16. 11. 28 No. of Certificate 18105 Grate area 11 3/4 Description of safety valves Enclosed Spring
 of safety valves 2 Area of each 1.76 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 4'-9" Length 11'-9" Material of shell plates Steel Thickness 3/8" 7/16" 3/8"
 Age of tensile strength 28.32 Description of riveting long. seams D.R. Lap Diameter of rivet holes 2 3/32" Whether punched or
 drilled Pitch of rivets 2.333, 2.333, 2.385 Lap of plating 3 3/4 Per centage of strength of joint Rivets 74.5 Working pressure of shell by
 rules 117.2 Thickness of shell crown plates 9/16" Radius of do. 4'-9" No. of stays to do. 69.2 Diameter of stays 1" Diameter of
 water—Top 4'-0" Bottom 4'-0" Length of furnace 2'-10" Thickness of furnace side plates Description of joint Working
 pressure of furnace by rules 172 lbs Thickness of Ogee ring 4 1/4 Working pressure of Ogee ring by rules 103.8 lbs Thickness of furnace
 crown plates 1/2" Radius of do. 2'-0" Stayed by Hemisphere Diameter of uptake 11" x 16 3/4" Thickness of uptake
 plates 1/2" Thickness of tube plates front 3/4" back 5/8" Mean pitch of stay tubes in nest 9.098" Pitch in outer vertical rows 7.322"
 Diameter of tube holes FRONT stay 2 7/16" BACK stay 2 1/2" Working pressure of tube plates by rules F. 105.1 lbs Tubes: Material Wrought iron
 External diameter stay 2 1/2" Thickness stay 1 1/32" No. of threads per inch 9 Pitch of tubes 3 5/8" x 3.661"
 Working pressure by rules 125 lbs Manhole compensation: Size of opening in shell plate 16" x 12" Section of compensating
 ring 5" x 19 3/32" No. of rivets and diameter of rivet holes 32 riv. 2 3/32" Outer row pitch at ends 4 1/4"

The foregoing is a correct description.

For COCHRAN & CO., ANNAN, LIMITED

J. E. Woodham Manufacturer.

Dates { During progress of work in shops - 1928 Oct 23 Nov 6. 16
 Survey while building { During erection on board vessel -
 Total No. of visits 3.

Drawing No. 16649

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 is to the order Messrs Beardmore & Co & intended for their ship
 No. 651 building at Dalnair

Survey Fee ... £ 4-4-0

Travelling Expenses (if any) £

When applied for 19

When received 19

MONTHLY ACCOUNT

S. E. Murdoch.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW

20 NOV 1928

Assigned TRANSMIT TO LONDON



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Foundation