

## REPORT ON BOILERS.

No. 53800

Received at London Office 30 AUG 1933

Date of writing Report 19 When handed in at Local Office 29. 8. 1933 Port of Glasgow.

No. in Survey held at Annan Date, First Survey 26<sup>th</sup> May 1933 Last Survey 23<sup>rd</sup> Aug 1933

Reg. Book. on the Donkey Boiler No 12456 M. S. "BREEZE" (Number of Visits 8) Gross 6 2 2 Tons Net 3 1 7

Master Built at Bowling By whom built Scott & Sons When built 1933

Boilers made at Annan By whom made Buchanan & Co Annan Ltd When made 1933

Owner's Canterbury S. S. Co Ltd Port belonging to Lytleton NZ

VERTICAL DONKEY BOILER— No. 1 Description Buchanan Manufacturers of steel The Steel Works of Scotland

Made at Annan By whom made Buchanan & Co Annan Ltd When made 1933 Where fixed In engine room Working pressure 100

tested by hydraulic pressure to 200 Date of test 23/8/33 No. of Certificate 19270 Fire grate area 26.75 Description of safety valves Enclosed spring.

No. of safety valves 2 Area of each 4.9 sq. ft. Pressure to which they are adjusted 100 lb./sq. in. If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler No Diameter of donkey boiler 7'-0" Length 16'-0" Material of shell plates Steel Thickness 1/2", 5/8"

Range of tensile strength 28/32 Description of riveting long. seams Double R. Lap Diameter of rivet holes 27/32 Whether punched or drilled Drilled Pitch of rivets 3'-6" Lap of plating 4" Per centage of strength of joint Rivets 87.2 Working pressure of shell by rules 108 Thickness of shell crown plates 7/8", 7/16" Radius of do. 3'-6" No. of stays to do. None Diameter of stays - Diameter of furnace—Top 3'-0" Bottom - Length of furnace - Thickness of furnace side plates 5/8" Description of joint Butt Ring Working pressure of furnace by rules 101 Thickness of Ogee ring 7/8" Working pressure of Ogee ring by rules 101.2 Thickness of furnace crown plates 5/8" Radius of do. 3'-0" Stayed by Hemispherical Diameter of uptake 15" x 23" Thickness of uptake plates 7/16" Thickness of tube plates front 7/8" back 1/2" Mean pitch of stay tubes in nest 10.76" Pitch in outer vertical rows 8"

Diameter of tube holes FRONT stay 2 1/2" BACK stay 2 1/2" Working pressure of tube plates by rules 51.16 Tubes: Material Mild Iron

External diameter stay 2 1/2" Thickness stay 5/8" No. of threads per inch 9 Pitch of tubes 4" x 3 1/4"

Working pressure by rules 125.140 Manhole compensation; Size of opening in shell plate 12" x 16" Section of compensating ring 12" x 16" No. of rivets and diameter of rivet holes 36, 3/4" Outer row pitch at ends 3.97"

FOR COCHRAN &amp; CO. ANNAN

W. J. Baker  
GENERAL WORKS MANAGER

Dates of Survey while building During progress of work in shops - 1933 May: 26 June: 1. 6. 28 July: 14. 27. 31 Aug 23 Drawing No.

During erection on board vessel - - - - -

Total No. of visits 8

Is the approved plan of boiler forwarded herewith

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

This boiler has been built under Special Licence & the materials & workmanship are good. It has been supplied to the order of Messrs Scott & Sons Bowling. No 324

This Boiler has been properly fitted in the vessel, examined under steam and safety valves adjusted as above.

Survey Fee ... £ 4-4-0

Travelling Expenses (if any) £ :

When applied for 19

When received 19

MONTHLY ACCOUNT

Committee's Minute GLASGOW 29 AUG 1933

Assigned TRANSMIT TO LONDON

Engineer Surveyor to Lloyd's Register of Shipping.

See No. 53800

Lloyd's Register

Foundation

011800-011804-0332