

# REPORT ON BOILERS.

No. 47044

21 SEP 1927

Date of writing Report 19 When handed in at Local Office 17.9.1927 Port of Glasgow.  
 No. in Survey held at Annan Date, First Survey 29th July Last Survey 13th Sept 1927  
 Reg. Book. BOILER N° 10491. TSS VYNER BROOKE (Number of Visits 8) Gross 1669.76  
 on the Tons Net 712.52  
 Master Built at Leith By whom built Ramage & Ferguson Ltd (Hull) When built 1928  
 Boilers made at Annan By whom made Cochran & Co Annan Ltd When made 1927.  
 Owners Saravak S.S. Co Ltd Port belonging to Kuching

VERTICAL DONKEY BOILER— No. One Description Vertical Manufacturers of steel D. Carnegie & Sons Ltd.  
 Made at Annan By whom made Cochran & Co Annan Ltd When made 1927 Where fixed Stockholm Working pressure 100 lbs.  
 tested by hydraulic pressure to 200 lbs Date of test 13/9/27 No. of Certificate 17574 Fire grate area 22.54 Description of safety valves double  
 No. of safety valves 2 Area of each 4.9 sq. ft Pressure to which they are adjusted 10.5. If fitted with easing gear yes If steam from main boilers can  
 enter the donkey boiler no Diameter of donkey boiler 6'6" Length 14'0" Material of shell plates Steel Thickness 1 1/2" and 1 3/4"  
 Range of tensile strength 28,325 lbs Description of riveting long. seams D.R. Lap Diameter of rivet holes 27/32 Whether punched or  
 drilled Drilled Pitch of rivets 2.8125", 2.6875", 2.663" Lap of plating 4 1/4 Per centage of strength of joint Rivets 69.75 Working pressure of shell by  
 rules 110 lbs Thickness of shell crown plates 1 3/4" and 2 1/4" Radius of do. 3'3" No. of stays to do. none Diameter of stays Diameter of  
 furnace—Top Hemisphere Bottom 5'6" Length of furnace Thickness of furnace side plates Description of joint 9 ogee Working  
 pressure of furnace by rules 125 lbs Thickness of Ogee ring 27/32 Working pressure of Ogee ring by rules 101.1 lbs Thickness of furnace  
 crown plates 1 1/2" Radius of do. 2'9" Stayed by radius Diameter of uptake 15" x 23" Thickness of uptake  
 plates 9/16" Thickness of tube plates front 2 1/16" back 2 1/2" Mean pitch of stay tubes in nest 13" Pitch in outer vertical rows 8 3/8"  
 Diameter of tube holes FRONT stay 2 1/16" BACK stay 2 1/2" Working pressure of tube plates by rules Front 120.8 lbs Back 126 lbs Tubes: Material Iron  
 External diameter stay 2 1/2" Thickness stay 11 L.S.G. No. of threads per inch 9 Pitch of tubes 3 9/16" and 4 7/16"  
 Working pressure by rules 125 lbs Manhole compensation: Size of opening in shell plate 16" x 12" Section of compensating  
 ring 6" x 1 1/16" No. of rivets and diameter of rivet holes 36 of 27/32 Outer row pitch at ends 3 3/4"

The foregoing is a correct description.

For COCHRAN & CO., ANNAN, LIMITED

Manufacturer.

J.E. Woodham

Dates of Survey while building  
 During progress of work in shops— 1927 July 29 Aug 2.9.12.19.26 Sep 2.13  
 During erection on board vessel— Dec 8 Jan 19 Feb 10  
 Total No. of visits 8

Drawing No. 15643. ✓

Is the approved plan of boiler forwarded herewith J.E.

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

This boiler has been built under Special Survey in accordance with the Rules and approved plan. The materials and workmanship are good.  
 It has been built to the order of Messrs Ramage and Ferguson for vessel 2° 264.  
 This boiler has been securely fixed on board, & found satisfactory under steam, the Safety Valves adjusted under steam as shown above.

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

When applied for 19  
 When received 19

MONTHLY ACCOUNT

A. Campbell  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 20 SEP 1927

Assigned TRANSMIT TO LONDON

TUES. 21 FEB 1928

See Lth. Book No 17329

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