

# REPORT ON BOILERS.

No. 56298

Date of writing Report 1-11-35 When handed in at Local Office 4-11-35 Port of Glasgow  
 No. in Survey held at Annan Date, First Survey 20-9-35 Last Survey 31-10-35  
 Reg. Book. Boiler No. 13170 S.S. "NAHOON" (Number of Visits 8) Tons Gross 788 Net 363  
 Master Built at Bowling By whom built Little & Sons When built 1936  
 Boilers made at Annan By whom made Cochran & Co. Annan Ltd When made  
 Owners Smith Crossings (Proprietary) Ltd Port belonging to Port Natal

VERTICAL DONKEY BOILER— No. 1 Description Cochran Manufacturers of steel Steel C° 8' land  
 Made at Annan By whom made Cochran & Co. Annan Ltd When made 1925 Where fixed Fore end Boiler Working pressure 100  
 Tested by hydraulic pressure to 200 Date of test 31-10-35 No. of Certificate 19626 Fire grate area Description of safety valves Double spring  
 No. of safety valves 2 Area of each 3'4" Pressure to which they are adjusted 100 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'-0" Material of shell plates 8. Thickness 7/16" - 17/32"  
 shut Range of tensile strength 28-22 Description of riveting long. seams D.R.L. Diameter of rivet holes 25/32" Whether punched or  
 drilled drilled Pitch of rivets 2-625", 2-69", 2-673" Lap of plating 3 7/8" Per centage of strength of joint Rivets 67-1 Working pressure of shell by  
 Plates 70-25  
 Pressure rules 108 Thickness of shell crown plates 13/16" - 13/32" Radius of do. 3'-0" No. of stays to do. None Diameter of stays 1 1/2" Diameter of  
 rest pressure—Top 1 1/2" Bottom 5'-0" Length of furnace 2'-7 3/16" Thickness of furnace side plates 1/2" Description of joint seamless Working  
 valves 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. 30" Stayed by Hemisphere Diameter of uptake 15" x 18" Thickness of uptake  
 plates 9/16" Thickness of tube plates front 11/16" back 11/16" Mean pitch of stay tubes in nest 10-97" Pitch in outer vertical rows 7 1/2"  
 Diameter of tube holes FRONT stay 2 1/16" BACK stay 2 1/2" Working pressure of tube plates by rules F103-6, B108-6 Tubes: Material Iron  
 External diameter stay 2 1/2" Thickness stay 11/32" No. of threads per inch 9 Pitch of tubes 3 3/4" x 3 9/16"  
 Working pressure by rules 125 Manhole compensation; Size of opening in shell plate 16" x 12" Section of compensating  
 ing 6" x 11/16" No. of rivets and diameter of rivet holes 36 - 25/32" Outer row pitch at ends 3 1/16"

FOR COCHRAN & CO., ANNAN, LTD  
 The foregoing is a correct description,

W. J. L. J. Works Manager

Dates of Survey while building During progress of work in shops - 1935 Sep. 20, 23, 26, 30 Oct. 9, 17, 26, 31 Drawing No. 21265  
 During erection on board vessel -  
 Total No. of visits 8 Is the approved plan of boiler forwarded herewith Copy.

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

4/11/35.

The boiler is to the order of Aitchison, Blair & Co. Ltd. For their Engine No. 197.

This boiler has now been satisfactorily fitted in the vessel examined under steam & its safety valves adjusted. Accumulation test satisfactory.

A. Deth. H. Heathcote

Survey Fee ... £ 4 : 4 : 7 When applied for 19  
 Travelling Expenses (if any) £ : : When received 19

Committee's Minute GLASGOW 5-NOV 1935

Assigned TRANSMIT TO LONDON

Engineer Surveyor to Lloyd's Register of Shipping.

4-FEB 1936

SEE ACCOMPANYING MACHINERY REPORT.

WED. 15 APR 1936

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