

REPORT ON BOILERS.

No. 55179
20 FEB 1935
28 May 1934

Date of writing Report 21-11-34 When handed in at Local Office 24-11-34 Port of Glasgow
No. in Survey held at Annan Date, First Survey 23-8-34 Last Survey 20-11-34
Reg. Book. on the Boiler No 12881. In/v. Manooira (Number of Visits 17) Gross 10856 Tons Net 6261
Master J.M. Built at Glasgow By whom built Alex Stephen & Sons Ltd When built 1935
Boilers made at Annan By whom made Cochran & Co Annan Ltd When made 1934
Owners Adelaide S. S. Co Ltd Port belonging to Melbourne

VERTICAL DONKEY BOILER— No. One Description Cochran Manufacturers of steel Steel Co of S'land
Made at Annan By whom made Cochran & Co Annan When made 1934 Where fixed Working pressure 100
tested by hydraulic pressure to 200 Date of test 20-11-34 No. of Certificate 19476 Fire grate area Description of safety valves Spring Loaded
No. of safety valves 2 Area of each 4.9 sq ft Pressure to which they are adjusted If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler Diameter of donkey boiler 7'-0" Length 16'-6" Material of shell plates 8 Thickness 1/2" - 2 1/32"
Range of tensile strength 28-32 Description of riveting long. seams J.R.L. Diameter of rivet holes 27/32" Whether punched or drilled drilled Pitch of rivets 2.722", 2.746" Lap of plating 4 1/4 Per centage of strength of joint Rivets 67.3 Working pressure of shell by rules 108.1 Thickness of shell crown plates 1 1/16" Radius of do. 6'-6" No. of stays to do. none Diameter of stays Diameter of furnace—Top Turbophane Bottom 6'-0" Length of furnace 3'-1" Thickness of furnace side plates 17/32" Description of joints Seamless Working pressure of furnace by rules 122 Thickness of Ogee ring 7/8" Working pressure of Ogee ring by rules 101 Thickness of furnace crown plates 17/32" Radius of do. 3'-0" Stayed by Turbophane Diameter of uptake 15" x 23" Thickness of uptake plates 9/16" Thickness of tube plates front 1 1/32" back 1 1/82" Mean pitch of stay tubes in nest 10.625" Pitch in outer vertical rows 6"
Diameter of tube holes FRONT stay 2"-2 3/16" stay 2"-2 3/16" 108.5 125.2 Working pressure of tube plates by rules 118.3 109 Tubes: Material Steel
External diameter plain 2" Thickness stay 1 1/32" plain 10 W.C. No. of threads per inch 9 Pitch of tubes 3" x 3.08"
Working pressure by rules 139 Manhole compensation: Size of opening in shell plate 16" x 12" Section of compensating ring 6" x 13/16" No. of rivets and diameter of rivet holes 36-27/32" Outer row pitch at ends 3 5/8"
FOR COCHRAN & CO., ANNAN, LTD.
The foregoing is a correct description.
E. Alex. Manufacturer.
GENERAL WORKS MANAGER.

Dates of Survey while building During progress of work in shops 1934 Aug.: 23.24.27.31 Sep.: 6.11.19.25 Oct.: 4.11.16 Drawing No. 32078
During erection on board vessel 19.24 Nov.: 1.5.12.20
Total No. of visits 17
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 special survey in accordance with the approved plan and the Society's Rules and requirements, the materials and workmanship are good.
24/11/34

The Boiler is to the order of A Stephen & Sons Ltd yard N° 540.

Survey Fee ... £ 4 : 4 : When applied for 19.
Travelling Expenses (if any) £ : : When received 19.
MONTHLY ACCOUNT
Jas. Cairns,
Engineer Surveyor to Lloyd's Register of Shipping.
Committee's Minute GLASGOW 27 NOV 1934
Assigned TRANSMIT TO LONDON
See En. Rpt. No. 54412
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