

REPORT ON BOILERS.

No. 49019

24 AUG 1929

Date of writing Report 19 When handed in at Local Office 26. 3. 29 Port of Glasgow
 No. in Survey held at Annan Date, First Survey 12. 2. 29 Last Survey 20. 3. 29
 Reg. Book. on the Boiler No. 11231 "Fleurdelis" (Number of Visits 5) Tons { Gross 315.99
 Master ✓ Built at Montreal By whom built Canadian Vickers Ltd. When built 1929.7
 Boilers made at Annan By whom made Cochran & Co (Annan) Ltd When made 1929
 Owners Canadian Government Customs Protective Service Port belonging to Ottawa, Ont.

VERTICAL DONKEY BOILER— No. One Description Vertical Manufacturers of steel D. Colville Sons Ltd
 Made at Annan By whom made Cochran & Co (Annan) Ltd When made 1929 Where fixed 9. 4. 29 Working pressure 120 lb
 tested by hydraulic pressure to 230 Date of test 20/3/29 No. of Certificate 18230 Fire grate area 11 1/2 ft Description of safety valves Enclosed Spring
 No. of safety valves 2 Area of each 4 1/2 sq ft Pressure to which they are adjusted 120 lb 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 3/32 1/32 1/32
 Range of tensile strength 28/32 Description of riveting long. seams S.R. Lap Diameter of rivet holes 25/32 Whether punched or
 drilled drilled Pitch of rivets 2 1/2 2 3/8 2 6/8 Lap of plating 3/8 Per centage of strength of joint Rivets 22.4 Working pressure of shell by
 rules 127.9 lb Thickness of shell crown plates 19/32 Radius of do. 4'-9" No. of stays to do. ✓ Diameter of stays ✓ Diameter of
 furnace—Top ✓ Bottom 4'-0" Length of furnace 2'-9 1/8 Thickness of furnace side plates Description of joint Working
 pressure of furnace by rules 172 lb Thickness of Ogee ring 1 1/16 Working pressure of Ogee ring by rules 120.4 lb 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 7/8 back 23/32 Mean pitch of stay tubes in nest 9.098 Pitch in outer vertical rows 7.322
 Diameter of tube holes FRONT stay 2 1/16 BACK stay 2 1/2 F. 124.2 lb Working pressure of tube plates by rules B 129.3 lb Tubes: Material Wrought Iron
 External diameter stay 2 1/2 Thickness stay 11/32 No. of threads per inch 9 Pitch of tubes 3 1/8 x 3.661
 Working pressure by rules 125 lb Manhole compensation: Size of opening in shell plate 16 x 12 Section of compensating
 ring 5" x 2 1/32 No. of rivets and diameter of rivet holes 32 off 25/32 Outer row pitch at ends 4 1/4

The foregoing is a correct description,

J.P. Cochran & Co (Annan) Ltd Manufacturer.
H.C. Woodham

Drawing No. 16930

Dates of Survey while building
 During progress of work in shops - -
 During erection on board vessel - -
 Total No. of visits

May 9. 16. 31. June 5. 14. 21. 25. July 5.
5. 8.

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 & Approved plan. This boiler is to the order of Messrs Canadian Vickers Ltd, for Customs Patrol Vessel No. 108

This boiler has been fitted on board and on completion tried under steam and found satisfactory. The safety valves have been adjusted under steam and tested for accumulation which did not exceed 10% per sq. in. In my opinion the vessel is eligible for the record D.B.S. 7.29.

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

Committee's Minute Fri. 6 SEP 1929

Assigned see minute on

H.P. Rpt 2073

TUE 29 OCT 1929

(S) John D. Macdonald
 Engineer Surveyor to Lloyd's Register of Shipping.

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