

FRI. DEC. 13. 1912

Rpt. 5b.

REPORT ON BOILERS.

No. 31607

WED. JUN. 26. 1912

Registered at London Office

Date of writing Report 22-6-1912 When handed in at Local Office 25/6/1912 Port of Glasgow

No. in Survey held at ~~Annan~~ Annan Date, First Survey 14.5.12 Last Survey 28-6-1912
Reg. Book. on the Donkey Boiler for S.S. "Norah Elsmie" (Chas. Hall Russell & Co. 519 Tons) Gross 424.26 Net 168.
Master A. Pirie Built at Aberdeen By whom built Hall Russell & Co. When built 1912.
Boiler made at Annan By whom made Cochran & Co. Annan Ltd. When made 1912
Owners G. Elsmie & Son. Port belonging to Aberdeen

VERTICAL DONKEY BOILER— No. 5831. Description Cochran Manufacturers of steel D. Colville & Son.
Made at Annan By whom made Cochran & Co. When made 1912 Where fixed In Storehold Working pressure 100 lbs.
Tested by hydraulic pressure to 200 lbs. Date of test 21.6.12 No. of Certificate 11654 Fire grate area 11 $\frac{3}{4}$ Description of safety valves direct spring
No. of safety valves 2 Area of each 2 $\frac{1}{4}$ Pressure to which they are adjusted 100 lbs. If fitted with easing gear Yes. If steam from main boilers can enter the donkey boiler No. Dia. of donkey boiler 4-9 Length 10-3 Material of shell plates S Thickness 7 $\frac{3}{8}$ Range of tensile strength 28-32 Descrip. of riveting long. seams dl Dia. of rivet holes 23/32 Whether punched or drilled d Pitch of rivets 2-385
Lap of plating 3 $\frac{5}{8}$ Per centage of strength of joint Rivets 76.7 Plates 70 Working pressure of shell by rules 100 Thickness of shell crown plates 7 $\frac{3}{8}$
Radius of do. 4-9 No. of Stays to do. ✓ Dia. of stays ✓ Diameter of furnace Top 24 Bottom ✓ Length of furnace 2-10
Thickness of furnace plates 2 $\frac{1}{2}$ - 5/8 Description of joint hemispherical & R² R² Working pressure of furnace by rules 125 Thickness of furnace crown plates 2 $\frac{1}{2}$ Radius of do. 24 Stayed by hemispherical Diameter of uptake 11 x 16 $\frac{3}{4}$ Thickness of uptake plates 2 $\frac{1}{2}$
Thickness of water tubes 1 $\frac{1}{2}$ - 1 $\frac{3}{4}$ F 3/4 B 5/8 ✓

The foregoing is a correct description.

Harry H. Davies Managing Director Manufacturer

Dates During progress of work in shops - 1912. May 14. 17. 24. 31. June 6. 21.
of Survey while building During erection on board vessel - -
Total No. of visits 6.

Is the approved plan of boiler forwarded herewith Y. N. 7625

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

The Material & workmanship is good.
The boiler has been built under special Survey.

Survey request form

No. 6.663 attached

This boiler has now been fitted on board the above named vessel, tried under steam, and safety valves adjusted to working pressure, for recommendation of class. See Aberdeen report No. 11010

Survey Fee ... £ 2-2-0 When applied for, Monthly. 1/5

Travelling Expenses (if any) £ : : When received, 19

P. J. Brown, John H. Heck, Engineer Surveyor to Lloyd's Register of British and Foreign Shipping. TUE. DEC. 17. 1912

Committee's Minute GLASGOW 25 JUN 1912

Assigned Transmit to London.



W1638-0188