

REPORT ON BOILERS.

Std. No. 64078

Received at London Office 17 JUL 1941

Date of writing Report 10 14. 7 41
 Made at in at Local Office 14. 7 41 Port of Glasgow
 No. in Survey held at Annan Date, First Survey 1941 Feb. 28 Last Survey 8-7-1941
 Reg. Book. "EMPIRE RALIEGH." (Number of Visits 15) Tons {Gross 7240 Net 5048
 on the
 Built at Sunderland By whom built Wm Doxford & Sons Ltd Yard No. 677 When built 1941
 Boilers made at Annan By whom made Cochran & Co Annan Ltd Boiler No. 15008 When made 1941
 Owners Ministry of War Transport Port belonging to Sunderland

VERTICAL DONKEY BOILER— No. one Description *Donkey boiler* Manufacturers of steel *Cochran & Co*
 Made at *Annan* By whom made *Cochran & Co Annan Ltd* When made 1941 Where fixed *upper boiler* Working pressure 120
 tested by hydraulic pressure to 230 Date of test 8-7-41 No. of Certificate 20789 Fire grate area - Description of safety valves *brass spring*
 No. of safety valves 2 Area of each $\frac{1}{2}$ sq. Pressure to which they are adjusted 120 If fitted with easing gear *Yes* If steam from main boilers can enter the donkey boiler - Diameter of donkey boiler 8'-0" Length 17'-9" Material of shell plates *S* Thickness $\frac{21}{32}$ $\frac{13}{16}$
 Range of tensile strength 28-32 ksi Description of riveting long. seams *DR Lap* Diameter of rivet holes $\frac{1}{32}$ Whether punched or drilled *drilled* Pitch of rivets 3.15" 3.15" 3.15" Lap of plating 5" Per centage of strength of joint Rivets *bb. 2 53.9* Working pressure of shell by rules 127.5 Thickness of shell crown plates $\frac{1}{32}$ $\frac{19}{32}$ Radius of do. 4'-0" No. of stays to do. - Diameter of stays - Diameter of furnace—Top - Bottom 7'-0" Length of furnace - Thickness of furnace side plates $\frac{23}{32}$ Description of joint *Seamless* Working pressure of furnace by rules 144 Thickness of Ogee ring $\frac{1}{32}$ Working pressure of Ogee ring by rules 124 Thickness of furnace crown plates $\frac{23}{32}$ Radius of do. 3'-6" Stayed by *Hemisphere* Diameter of uptake $21\frac{1}{2} \times 25$ Thickness of uptake plates $\frac{9}{16}$ Thickness of tube plates front $\frac{1}{4}$ Mean pitch of stay tubes in nest 8-73-837-947 Pitch in outer vertical rows $5\frac{1}{4}$ 6.37"
 Diameter of tube holes FRONT *stay* $2\frac{1}{2} \times 1\frac{1}{2}$ BACK *stay* $2 \times 1\frac{1}{2}$ Working pressure of tube plates by rules *F-122.126 B-196.161* Tubes: Material *S*
 External diameter *stay* $2 \times 1\frac{1}{2}$ Thickness *stay* $\frac{1}{32}$ No. of threads per inch 9 Pitch of tubes $2\frac{1}{8} \times 2\frac{1}{16}$ 3.18" x 3.13"
 Working pressure by rules 215 290 Manhole compensation; Size of opening in shell plate 21×17 Section of compensating ring $7\frac{1}{2} \times 1\frac{1}{2}$ No. of rivets and diameter of rivet holes 40 @ $1\frac{1}{32}$ Outer row pitch at ends 4.03"

The foregoing is a correct description, *GMB*

T. Rex

Manufacturer

FOR COCHRAN & CO. ANNAN, LTD.

Dates of Survey while building { During progress of work in shops - - 1941 Feb. 28 Mar. 7, 20, 27, Apr. 4, 18, May 6, 16, Drawing No. 25112
 { During erection on board vessel - - 22, 29 June 4, 11, 19 July 3, 8.
 Total No. of visits 15

Is the approved plan of boiler forwarded herewith *no*
Retained for boiler No. 15009. *copy in head office*

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

The material and workmanship are good.
 The boiler has been constructed under special survey.

This boiler has been securely fixed on board the vessel & safety valves adjusted to working pressure as above.

In recommendation please see Machinery Rpt.

J. H. Hasw.

Survey Fee £ 5 : 14 : } When applied for 19.....
 Travelling Expenses (if any) £ : : } When received 19.....

MONTHLY ACCOUNT

Committee's Minute GLASGOW 15 JUL 1941

Assigned *Approved*

H. Davis
 Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 7 NOV 1941

© 2020

Lloyd's Register Foundation

001725-001735-0197

(The Surveyors are requested not to write on or below the space for Committee's Minute.)