

REPORT ON BOILERS.

No. 64654

13 NOV 1941

Received at London Office

Date of writing Report 10 When handed in at Local Office 11. 11. 1941 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 2. 9. 41 Last Survey 4. 11. 1941

Reg. Book. on the *Sh. Lighter VIC 70. VIC* (Number of Visits 9) Tons { Gross 96 Net 41

Built at *Thorne* By whom built *R Dunston Ltd* Yard No. 634 When built 1942. 4

Boilers made at *Leamington* By whom made *Alex Anderson & Sons* Boiler No. 3678 When made 1941

Owners *The Ministry of War Transport* Port belonging to

VERTICAL DONKEY BOILER— No. 1 Description *Vertical Corn-tube Manufacturers of steel Colville Ltd*

Made at *Leamington* By whom made *Alex Anderson & Sons* When made 1941 Where fixed Working pressure 120

tested by hydraulic pressure to 230 Date of test 4. 11. 41 No. of Certificate 20904 Fire grate area 21.75 Description of safety valves *Double Spring*

No. of safety valves 2 Area of each 3.14 Pressure to which they are adjusted *120 lb* If fitted with easing gear *Yes* If steam from main boilers can enter the donkey boiler Diameter of donkey boiler 6' 3" Height 14' 6" Material of shell plates *Steel* Thickness $\frac{1}{2}$ "

Range of tensile strength 28/32 Description of riveting long. seams *DR lap* Diameter of rivet holes $\frac{13}{16}$ Whether punched or drilled *Dr.* Pitch of rivets 2.547, 2.513 Lap of plating 4" Percentage of strength of joint Rivets 66.8 Plates 67.9 Working pressure of shell by rules 120 Thickness of shell crown plates $\frac{3}{4}$ Radius of do. 6' 2" No. of stays to do. 6 Diameter of stays $1\frac{1}{4}$ Diameter of furnace—Top 5' Bottom 5' 3 $\frac{3}{4}$ Length of furnace 6' 10 $\frac{7}{8}$ Thickness of furnace side plates $\frac{5}{8}$ Description of joint *Welded* Working pressure of furnace by rules 128 Thickness of Ogee ring Working pressure of Ogee ring by rules Thickness of furnace crown plates $\frac{5}{8}$ Radius of do. 6' 2" Stayed by 6-1 $\frac{3}{4}$ Stay Diameter of uptake 121" Thickness of uptake plates $\frac{5}{8}$ Thickness of tube plates front back Mean pitch of stay tubes in nest Pitch in outer vertical rows

Diameter of tube holes FRONT *stay plain* BACK *stay plain* Working pressure of tube plates by rules Tubes: Material *Steel*

External diameter *stay plain* 12 $\frac{1}{2}$ Thickness *stay plain* $\frac{7}{16}$ No. of threads per inch Pitch of tubes

Working pressure by rules 120 Manhole compensation; Size of opening in shell plate 19 $\frac{1}{2}$ x 15 $\frac{1}{2}$ Section of compensating ring 6 $\frac{1}{2}$ x $\frac{11}{16}$ No. of rivets and diameter of rivet holes 52 - $\frac{13}{16}$ Outer row pitch at ends

The foregoing is a correct description,
Per Pro *ALEX ANDERSON & SONS, LTD.*
S. W. C. Fleming Manufacturer

Dates of Survey while building { During progress of work in shops - } 1941 Sep: 2. 10. 22 Oct: 1. 14. 16. 20. 30 Nov: 4

{ During erection on board vessel - - } Drawing No. $\frac{1}{B}$ 241

Total No. of visits 9 Is the approved plan of boiler forwarded herewith *app 11-9-41*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *This boiler has been constructed under Special Survey in accordance with the Society's Rules and the approved Plan. The material and workmanship are good. The boiler was made to the order of Messrs Robtree Ltd and intended for Messrs R Dunston Ltd, Thorne, n° 379.*

Job 11/11/41

L. J. 14/11/41

Survey Fee ... £ 4 : 4 : } When applied for 11 NOV 1941

Travelling Expenses (if any) £ : : } When received

Committee's Minute **GLASGOW 11 NOV 1941** TUE 19 MAY 1942

Assigned *Keferred* *J. J. See* *Jul 26 51598* *F. R. Dale* Engineer Surveyor to Lloyd's Register of Shipping.

7/8/42

Lloyd's Register Foundation

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