

REPORT ON BOILERS.

Slid. No. 62703

AUG 14 1940

Date of Report 12. 8. 40 When handed in at Local Office 12. 8. 40 Port of Glasgow Slid. No. 241
 No. in Survey held at Annan Date, First Survey 1939 Sept 20th Last Survey 9-8-1940
 Reg. Book. M/V ANTAR (Number of Visits 25) Tons {Gross 5222
 on the M/V ANTAR Net 3034
 Built at Sunderland By whom built W. Doxey & Sons Ltd Yard No. 665 When built 1940
 Boilers made at Annan By whom made Dochan & Co Annan Ltd Boiler No. 14521 When made 1940
 Owners New Egypt & Levant Shipping Co Ltd Port belonging to London

VERTICAL DONKEY BOILER— No. one Description Dochan composite Manufacturers of steel Bohiller Ltd
 Made at Annan By whom made Dochan & Co Annan Ltd When made 1940 Where fixed (for 2nd ER) Working pressure 120 lbs
 tested by hydraulic pressure to 230 Date of test 9-8-40 No. of Certificate 20615 Fire grate area — Description of safety valves Enclosed spring
 No. of safety valves 2 Area of each 7.06 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 13/16 21/32
 Range of tensile strength 28-32 tons Description of riveting long. seams DR lap Diameter of rivet holes 1 1/32 Whether punched or drilled dilled Pitch of rivets 3-15, 3-13, 3-11 Lap of plating 5" Per centage of strength of joint 66.2 53.9 Working pressure of shell by rules 127 Thickness of shell crown plates 19/32 & 1/32 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 23/32 Description of joint seamless Working pressure of furnace by rules 144 Thickness of Ogee ring 1 1/32 Working pressure of Ogee ring by rules 124 Thickness of furnace crown plates 23/32 Radius of do. 3'-6" Stayed by hemisphere Diameter of uptake 21 1/2 x 25 Thickness of uptake plates 9/16 Thickness of tube plates front 1/4" Mean pitch of stay tubes in nest 8'-7", 8'-3", 9'-4" Pitch in outer vertical rows 5 1/4" 6-37"
 Diameter of tube holes FRONT stay 2 3/16 1 1/16 BACK stay 2" 1 1/2" Working pressure of tube plates by rules F122. 126 8196. 161 Tubes: Material S
 External diameter stay 2" 1 1/2" plain 2 1/16 1 1/16 Thickness stay 1/32 plain 10 LSG No. of threads per inch 9 Pitch of tubes 29 1/8 x 2 1/16, 3-13 x 3-18 7"
 Working pressure by rules 215 Manhole compensation; Size of opening in shell plate 21" x 17" Section of compensating ring 9/4" x 1 1/32 No. of rivets and diameter of rivet holes 40 @ 1 1/32 Outer row pitch at ends 4.03"

The foregoing is a correct description,
 L. R. I. Manufacturer
 FOR COCHRAN & Co., ANNAN, LTD.

Dates of Survey while building: During progress of work in shops - (1939) Sept. 20, Dec. 28 (1940) Jan 18 Drawing No. 25554
 During erection on board vessel - Feb. 2, 20, Mar. 14, 29, Apr. 4, 11, 18, 23, May 2, 9, 16, 21, June 7, 13, 25, July 5, 11, 23, 30, Aug. 9 Duplicate of Drawing No. 25112 except one shell crown side plate increased to 5/8" and position of manhole
 Total No. of visits 25 Is the approved plan of boiler forwarded herewith yes

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
The materials and workmanship are good.
The boiler has been constructed under special survey. It will be sent to Sunderland to be fitted in the vessel.
 Heating surface — exhaust gas — 515 sq ft. oil fired — 538 sq ft.

This boiler has been securely fixed on board the vessel, & examined under Steam & Safety valves adjusted to working pressure in accordance with rule requirements.
In recommendation please see Inclsy Rpt.
 D. T. Fraser.

Survey Fee ... £ 5 : 12 : } When applied for ... 19
 Travelling Expenses (if any) £ : : } When received ... 19

Committee's Minute **GLASGOW 13 AUG 1940**
 Assigned **TRANSMIT TO LONDON**
 Engineer Surveyor to Lloyd's Register of Shipping.
 See Slid 33044