

REPORT ON BOILERS.

Received at London Office FEB 19 1941

Date of writing Report 19 15 When handed in at Local Office 15 Port of Glasgow Slid. 25.6.41
 No. in Survey held at Annan Date, First Survey 11.9.40 Last Survey 6.2.41
 Reg. Book. DALTON HALL (Number of Visits 14) Gross 7253
 on the DALTON HALL Tons Net 5022
 Built at Sunderland By whom built Wm Doxford & Sons Ltd Yard No. 672 When built 1941
 Boilers made at Annan By whom made Cochran & Co (Annan) Ltd (Boiler No. 14878) When made 1941
 Owners West Hartlepool Stevedoring Co Ltd Port belonging to West Hartlepool

VERTICAL DONKEY BOILER— No. 1 Description Cochran Manufacturers of steel Coburns Ltd
 Made at Annan By whom made Cochran & Co (Annan) Ltd When made 1941 Where fixed Upper Deck Working pressure 120
 tested by hydraulic pressure to 230 Date of test 6-2-41 No. of Certificate 20702 Fire grate area al fuel Description of safety valves Enclosed spring
 No. of safety valves 2 Area of each 7.06 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 Steel Thickness 13/16 & 21/32
 Range of tensile strength 28-32 Description of riveting long. seams DR Lap Diameter of rivet holes 1 1/32 Whether punched or drilled drilled Pitch of rivets 3.15, 3.13, 3 1/8 Lap of plating 5" Per centage of strength of joint Rivets 66.2, 53.9 Working pressure of shell by rules 66.8, 67.3
 Thickness of shell crown plates 1 1/32, 1 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 2 3/32 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 2 3/32 Radius of do. 3'6" Stayed by hemispherical Diameter of uptake 2 1/2" x 25" Thickness of uptake plates 9/16 Thickness of tube plates front 1 1/4 back 1 1/4 Mean pitch of stay tubes in nest 8.718, 8.36, 9.475 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 13, 196, 141 Tubes: Material Steel
 External diameter stay 2 1/2 Thickness stay 1 1/2 No. of threads per inch 9 Pitch of tubes 2 3/8 x 2 1/2, 3.13 x 3.187
 Working pressure by rules 215 Manhole compensation; Size of opening in shell plate 21 x 17 Section of compensating ring 9 1/2 x 1 1/2 No. of rivets and diameter of rivet holes 40 @ 1 1/2 Outer row pitch at ends 4.08

The foregoing is a correct description,

E. Alex. Manufacturer
FOR COCHRAN & CO., ANNAN, LTD.

Dates of Survey while building
 During progress of work in shops— 1940 Sep.: 11.19 Oct.: 17.30 Nov.: 14.21.28 Dec.: 5.12.19.24 Drawing No. 25112
 During erection on board vessel— 1941 Jan.: 9.17 Feb.: 6
 Total No. of visits 14 Is the approved plan of boiler forwarded herewith

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 is intended for Messrs Wm Doxford, Sons, Contract No. 672.

This boiler has been securely fitted on board the vessel. Safety valves adjusted to working pressure.

(In recommendation please see Memo Rpt.)

W. Dale
Engineer Surveyor to Lloyd's Register of Shipping.

Survey Fee ... £ 4 : 4 : } When applied for **MONTHLY ACCOUNT**
 Travelling Expenses (if any) £ : : } When received 19

Committee's Minute **GLASGOW 18 FEB 1941**
 Assigned **TRANSMIT TO LONDON**

FRI. 11 JUL 1941
 See Slid. 33135
 Lloyd's Register Foundation
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