

## REPORT ON BOILERS.

No. 68373

Received at London Office

21 JAN 1945

Date of writing Report

19

When handed in at Local Office

24.4.1944

1944

Port of

GLASGOW.

No. in Survey held at

ANNAN

Date, First Survey

28.1.44

Last Survey

18.4.

1944.

Reg. Book.

"VIC 81"

(Number of Visits)

Gross

Tons

Net

Built at

Great Yarmouth

By whom built

John Harker &amp; Co. Ltd.

Crabtree (1931) Ltd.

Yard No.

182

When built

1944

Boilers made at

ANNAN

By whom made

COCHRAN &amp; CO. (ANNAN) LTD

Boiler No.

16034

When made

1944

Owners

ADMIRALTY

Port belonging to

HULL

VERTICAL DONKEY BOILER— No. One Description Cochran Manufacturers of steel Colvilles Ltd.

Made at Annan By whom made Cochran &amp; Co. (Annan) Ltd. When made 1944 Where fixed Working pressure 125 lbs

tested by hydraulic pressure to 238 Date of test 18.4.44. No. of Certificate 21707 Fire grate area 26.75 sq. ft. Description of safety valves Ordinary

No. of safety valves 2 Area of each 4.9" 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 7'0" Length 14'0" Material of shell plates 8 Thickness 19/32" 23/32"

Range of tensile strength 28-32 Description of riveting long. seams DR Lap. Diameter of rivet holes 31/32" Whether punched or drilled drilled Pitch of rivets 2.962" 3.03" 2.97 Lap of plating 4 1/2" Per centage of strength of joint Rivets 68.9 Plates 66.4 Working pressure of shell by rules 129.7 Thickness of shell crown plates 1" x 17/32" Radius of do. 3'6" No. of stays to do. — Diameter of stays — Diameter of

furnace—Top — Bottom 6'0" Length of furnace — Thickness of furnace side plates 21/32" Description of joint. Seamless Working pressure of furnace by rules 152 Thickness of Ogee ring 1" Working pressure of Ogee ring by rules 133 Thickness of furnace crown plates 21/32" Radius of do. 3'0" Stayed by Hemisphere Diameter of uptake 16" x 20" Thickness of uptake

plates 1/2" Thickness of tube plates front 1 1/16" back 1" Mean pitch of stay tubes in nest 10.77" Pitch in outer vertical rows 8" Diameter of tube holes FRONT stay 2 1/16" BACK stay 2 1/8" Working pressure of tube plates by rules F.126B.146 Tubes: Material S

External diameter stay 2 1/8" Thickness 16 stay 11/32" No. of threads per inch 9 Pitch of tubes 4" x 3 3/4" Working pressure by rules 175 Manhole compensation: Size of opening in shell plate 21" x 17" Section of compensating ring 7 1/2" x 1" No. of rivets and diameter of rivet holes 40 @ 31/32" Outer row pitch at ends 4 1/2"

The foregoing is a correct description,

L. C. Davis

Manufacturer

FOR COCHRAN &amp; CO. ANNAN, LTD.

H.S. = 500 ft by specification

Drawing No. 29465

Dates of Survey while building

During progress of work in shops - - 1944 Jan 28 Mar 8. 16.30 Apr 14.18  
During erection on board vessel - -  
Total No. of visits 6Is the approved plan of boiler forwarded herewith No  
Retained for duplicate cases.

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

The materials and workmanship are good.

The boiler has been constructed under special survey.

The boiler has been constructed to the order of the Admiralty and will be sent to Messrs. Crabtree (1931) Ltd., Great Yarmouth to be fitted in an 80ft. steam lighter.

The above boiler fitted on board the steam lighter 'Vic 81' at Knottingley, examined under steam, safety valves adjusted to 125 lbs, accumulation test held and found satisfactory on completion of all tests.  
Size of safety valve washers F 1 1/32 A 10/32 Set on 16/10/44.  
L. S. Shields  
Hull.Survey Fee ... £ 4 : 4 :  
Specification  
Travelling Expenses (if any) £ 1 : 1 :When applied for ...  
When received ...L. C. Davis  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned Transmit to Wokingham

GLASGOW 25 APR 1944

FRI. 16 FEB 1945

See F.E. machy. rpt.

Lloyd's Register  
Foundation

007528-007536-0108