

IN D.O.

No. 69173.

E6 JAN 1945

No. in Survey held at ANNAN
Reg. Book.

Date, First Survey 26-11-43 Last Survey 29th December, 1944

(Number of Visits 30)

Tons } Gross
Net

Built at GREAT YARMOUTH By whom built Brown's Shipbuilding Drydock Co Ltd.
CRABTREE (1931) LTD.

Boilers made at ANNAN

By whom made COCHRAN & CO. (ANNAN) LD.

Yard No. 17

When built 1945

Owners THE ADMIRALTY

Boiler No. **X.T. 11159** When made **1944**

Port belonging to

VERTICAL ~~DONKEY~~ BOILER— No. One ✓ Description Crosstube ✓ Manufacturers of steel Colvilles Ltd. ✓
Made at ANNAN ✓

Made at ANNAN ✓ By whom made COCHRAN & CO. (ANNAN) LD ✓ When made 1944 ✓ Where fixed - ✓
tested by hydraulic pressure to 230 ✓ Date of test 29-12-44 ✓ Working pressure 120 lbs. ✓

tested by hydraulic pressure to 230 ✓ Date of test 29-12-44 No. of Certificate 21850 Fire grate area 22.5 ✓ Description of safety valves Ordinary ✓
No. of safety valves 2 ✓ Area of each 3.14 ✓ Pressure to which they are tested 123.5 ✓ sq.ft.

No. of safety valves 2 Area of each 3.14 sq. in. Pressure to which they are adjusted 123½ sq. ft. If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler - Diameter of donkey boiler 6'3" Length 14'6" Material of boiler Iron

enter the donkey boiler - Diameter of donkey boiler 6'3" ✓ Length 14'6" ✓ Material of shell plates S ✓ Thickness 1/2" ✓
Range of tensile strength 28-32 tons ✓ Description of riveting long. seams D.R. LAP ✓ Diameter of rivets 27/32" ✓

Range of tensile strength 28-32 ✓ Description of riveting long. seams D.R. LAP ✓ Diameter of rivet holes 27/32" ✓ Whether punched or drilled drilled ✓ Pitch of rivets 2.65" 2.67" ✓ Lap of plating 4" ✓ Per centage of strength of joint 68.7 ✓ Rivets 68.7

Pitch of rivets $2.65"$ $2.67"$ ✓ Lap of plating $4\frac{1}{2}"$ ✓ Per centage of strength of joint Rivets 68.7
 Thickness of shell crown plates $25/32"$ ✓ Radius of do. $612"$ ✓ No. of stays to do Plates 68.4 Working pressure of shell by
 rules 132

Thickness of shell crown plates $25/32"$ Radius of do. $612"$ No. of stays to do. $-$ Diameter of stays $-$ Diameter of
furnace—Top $5'11\frac{1}{4}"$ Bottom $5'5"$ Length of furnace $618\frac{1}{2}"$ Thickness of furnace side plates $(8\frac{1}{2})\frac{5}{8}"$ Description of iron plates welded to shell

Pressure of furnace by rules 131 Thickness of Ogee ring - Working pressure of Ogee ring by rules - Thickness of -

Thickness of Ogee ring - Working pressure of Ogee ring by rules - Thickness of furnace crown plates $13/16"$ ✓ Radius of do. $5'0"$ ✓ Stayed by Uptake ✓ Diameter of uptake $1'9"$ ✓ Thickness of uptake

plates $\frac{5}{8}$ " ✓ Thickness of tube plates front $\frac{1}{2}$ ✓ Stayed by Uptake ✓ Diameter of uptake 119" ✓ Thickness of uptake
back $\frac{1}{2}$ ✓ Mean pitch of stay tubes in nest - Pitch in outer vertical rows -

Diameter of tube holes FRONT ^{stay} BACK ^{stay}
 plain plain Working pressure of tube plates by rules
 Mean pitch of stay tubes in nest Pitch in outer vertical rows

Diameter of tube notes FRONT BACK Working pressure of tube plates by rules Tubes : Material S ✓
plain plain
external diameter stay Thickness stay No. of threads per inch welded in

external diameter stay 12½" Thickness stay 7/16" No. of threads per inch Welded in ✓ Pitch of tubes 20½" ✓
Working pressure by rules 120 Manhole compensation: Since _____

Working pressure by rules 120 Manhole compensation; Size of opening in shell plate 16" x 20 1/2" Section of compensating
No. of rivets and diameter of rivet holes 48 @ 27/32"

The foregoing is a correct description.

Garret.

Manufacturer

FOR COCHRAN & CO. ANNAN, LEITH. *Manufacturers*

Dates of Survey while building	{	During progress of	work in shops- -	1943 Nov 26 Dec 9. 24 1944 Jan 14. 28 Feb 19. 15 Mar 8. 22 Apr 28. 28 May 5. 10. Drawing No.	27093A
		During erection on	board vessel - -	25 Jun 8. 21 Jul 28 Aug 4. 18. 22 Sep 1. 14. 29 Oct 20 Nov 9. 24 30 Dec 14. 22. 29	
		Total No. of visits	30		

Is the approved plan of boiler forwarded herewith Yes
~~Retained for Duplicate use.~~

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

The workmanship and materials are good.

The Boiler has been constructed under Special Survey and in accordance with Admiralty Specification for a 66'0" Steam Puffer.

~~It will be sent to Great Vermouth~~ to be fitted in the vessel.
Brown's Yard No 17.

The above boiler installed in 'VIC 74' at Hull under Special Survey, examined under steam, safety valves adjusted to 123 lb (ring sizes $\frac{7}{32}$: $\frac{5}{16}$), 17/5/45 accumulation test held and found satisfactory on completion of all tests.
W.S. Shields.
Hull.

Survey Fee ... £ 4 : 4 : - } When applied for Mon 4/11 1911
Specification
 Travelling Expenses (if any) £ : : } When received 1911

L. C. Davis © 2021
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

GLASGOW

4 JAN 1945

Assigned Transmit to Wokingham

Not for Blasing Committee

014751-014762-0373