

# REPORT ON BOILERS.

No. 59314

JAN 26 1938

Received at London Office

Date of writing Report 19 22.1.38 When handed in at Local Office 22.1.38 Port of Glasgow  
 No. in Survey held at Annan Date, First Survey 7.10.37 Last Survey 20-1-1938  
 Reg. Book. on the S.S. TINTERN ABBEY (Number of Visits 14 15) Gross 2470.77  
 Tons Net 1482.49  
 Master Built at West Hartlepool By whom built W. Gray & Co. Ltd. When built 1939  
 Boilers made at Annan By whom made Cochran & Co. Annan Ltd. BOILER No. 13892 When made 1938  
 Owners Abbey Line Ltd. Port belonging to CARDIFF

VERTICAL DONKEY BOILER— No. one Description Vertical Manufacturers of steel Bohills Ltd  
 Made at — By whom made — When made — Where fixed — Working pressure 100  
 tested by hydraulic pressure to 200 Date of test 20-1-38 No. of Certificate 20092 Fire grate area 26.75 Description of safety valves Enclosed spring  
 No. of safety valves 2 Area of each 4.9 Pressure to which they are adjusted — If fitted with easing gear yes If steam from main boilers can enter the donkey boiler — Diameter of donkey boiler 7'-0" Length 15'-0" Material of shell plates S Thickness 1/2" / 5/8"  
 Range of tensile strength 28-32 Description of riveting long. seams WR L Diameter of rivet holes 27/32" Whether punched or drilled — Pitch of rivets 2.732" / 2.681" / 2.13" Lap of plating 4 1/4" Per centage of strength of joint Rivets 65 Working pressure of shell by Plates 69  
 rules 105 Thickness of shell crown plates 7/8" - 7/16" Radius of do. 3'-0" No. of stays to do. none Diameter of stays — Diameter of furnace—Top — Bottom 6'-0" Length of furnace — Thickness of furnace side plates 17/32" Description of joint Seamless Working pressure of furnace by rules 122 Thickness of Ogee ring 7/8" Working pressure of Ogee ring by rules 101 Thickness of furnace crown plates 17/32" Radius of do. 3'-0" Stayed by hemisphere Diameter of uptake 15" x 23" Thickness of uptake plates 9/16" Thickness of tube plates front 7/8" back 13/16" Mean pitch of stay tubes in nest 13 1/2" Pitch in outer vertical rows 8"  
 Diameter of tube holes FRONT stay 2 1/16" BACK stay 2 1/2" Working pressure of tube plates by rules 116.7 Tubes: Material Iron  
 External diameter stay 2 1/2" Thickness stay 11/32" No. of threads per inch 9 Pitch of tubes 4" x 3 3/4"  
 Working pressure by rules 125 Manhole compensation: Size of opening in shell plate 16" x 12" Section of compensating ring 6" x 1 1/16" No. of rivets and diameter of rivet holes 36 @ 27/32" Outer row pitch at ends 3.969"

FOR COCHRAN & CO., ANNAN, LTD.  
 The foregoing is a correct description, W.O.S.  
 Works Manager, Manufacturer.

Dates of Survey while building { During progress of work in shops - - } 1937 Oct.: 7. 14. 22. 28 Nov.: 11. 19. 30 Dec.: 10. 14. 16. 30 Drawing No. 21577  
 { During erection on board vessel - - } 1938 Jan.: 6. 13. 18. 20  
 Total No. of visits 14 15 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 to the order of Messrs Central Marine Engine Works West Hartlepool, for their No. 1090.  
 22/1/38.

This donkey boiler has now been fitted on board and satisfactorily secured.  
 It has been examined under steam and its safety valves adjusted to 100 lbs per square inch.  
 Arthur W. Oxford.  
 West Hartlepool.

Survey Fee ... .. £ 4 : 4 : | When applied for ... .. 19...  
 Travelling Expenses (if any) £ : : | When received ... .. 19...

MONTHLY ACCOUNT

Engineer Surveyor to Lloyd's Register of Shipping.  
 19 MAY 1938

Committee's Minute GLASGOW 25 JAN 1938  
 Assigned TRANSMIT TO LONDON

Certificate (if required) to be sent to... (The Surveyors are requested not to write on or below the space for Committee's Minute.)