

Rpt. 5e.

# REPORT ON BOILERS.

No. 48205

Date of writing Report 19... When handed in at Local Office 17-7-1928 Port of Glasgow.  
No. in Survey held at Annan Date, First Survey 12/7/1928 Last Survey 12/7/1928  
Reg. Book. BOILER No 10182 (Number of Visits) Tons {Gross Net  
Master Built at By whom built When built  
Boilers made at Annan By whom made Messrs Lochan & Co Annan Ltd When made 1928  
Owners Port belonging to

VERTICAL DONKEY BOILER No. ONE Description VERTICAL Manufacturers of steel D. Colville & Sons Ltd  
Made at Annan By whom made Lochan & Co Annan Ltd When made 1928 Where fixed Working pressure 100 lbs  
tested by hydraulic pressure to 200 lbs Date of test 12/7/28 No. of Certificate 7961 Fire grate area 37 sq ft Description of safety valves Ratchet Spring  
No. of safety valves 2 Area of each 7.06 sq ft Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can enter the donkey boiler  
Diameter of donkey boiler 8'-0" Length 18'-9" Material of shell plates Steel Thickness 9/16", 1/2", 9/16"  
Range of tensile strength 28/30 Tons Description of riveting long seams DR. Lap Diameter of rivet holes 2 3/32" Whether punched or drilled Drilled Pitch of rivets 2.675", 2.886", 2.825" Lap of plating 4 1/2" Per centage of strength of joint Rivets 66.6 Plates 66.1 Working pressure of shell by rules 106.5 lbs Thickness of shell crown plates 1/2", 1" Radius of do. 4'-0" No. of stays to do. - Diameter of stays - Diameter of furnace—Top Hemispherical Bottom 7'-0" Length of furnace 4'-3 1/2" Thickness of furnace side plates 5/8" Description of joint Seamless Working pressure of furnace by rules 124.2 lbs Thickness of Ogee ring 1" Working pressure of Ogee ring by rules 117 lbs Thickness of furnace crown plates 5/8" Radius of do. 3'-6" Stayed by Hemispherical Diameter of uptake 21 1/2" x 25" Thickness of uptake plates 9/16" Thickness of tube plates front 7/32" back 3/4" Mean pitch of stay tubes in nest 12.68" Pitch in outer vertical rows 9"  
Diameter of tube holes FRONT stay 2 1/16" BACK stay 2 1/2" Working pressure of tube plates by rules FR 102.66 BK 109.3 lbs Tubes: Material Best 2nd  
External diameter stay 2 1/2" plain 2 1/4" Thickness stay 1 1/32" plain 1 1/4" No. of threads per inch 9 Pitch of tubes 3 9/16" x 4 1/2"  
Working pressure by rules 125 lbs Manhole compensation; Size of opening in shell plate 16" x 12" Section of compensating ring 6" x 2 7/32" No. of rivets and diameter of rivet holes 36 @ 2 7/32" Outer row pitch at ends 4"

The foregoing is a correct description,  
FOR COCHRAN & Co., ANNAN, LTD,  
J. E. Woodham Manufacturer.

Dates of Survey while building During progress of work in shops - - Surveyor on regular attendance minimum four visits. Drawing No. 16523.  
During erection on board vessel - -  
Total No. of visits Is the approved plan of boiler forwarded herewith Yes.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under survey in accordance with the Rules and approved plan.  
Material and workmanship Good.  
This boiler is to the order of Messrs Middle Docks & Eng. Co of South Shields and slated to be for the S/S. THOR HAMMER - San Nazario

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

Committee's Minute GLASGOW 24 JUL 1928  
Assigned TRANSMIT TO LONDON

Engineer Surveyor to Lloyd's Register of Shipping.

TUES. 28 AUG 1928

Lloyd's Register Foundation