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# REPORT ON BOILERS.

No. 36309

Date of writing Report Sept 13<sup>th</sup> 1916 When handed in at Local Office 19 Port of Glasgow  
 Received at London Office \_\_\_\_\_  
 No. in Survey held at Annan Date, First Survey 18/8/16 Last Survey Sept. 12<sup>th</sup> 1916  
 Reg. Book. on the Donkey Boiler for Messrs The Asiatic Petroleum Co. Ltd. London. (Number of Visits) \_\_\_\_\_ (Gross Tons) \_\_\_\_\_ (Net Tons) \_\_\_\_\_  
 Master \_\_\_\_\_ Built at \_\_\_\_\_ By whom built \_\_\_\_\_ When built \_\_\_\_\_  
 Boilers made at Annan By whom made Cochrane & Co. Annan, Ltd. Annan When made 1916  
 Owners \_\_\_\_\_ Port belonging to \_\_\_\_\_

**VERTICAL DONKEY BOILER**— No. 4088 Description Cochrane Manufacturers of steel The Glasgow Crown & Steel Co. Ltd.  
 Made at Annan By whom made Cochrane When made 1916 Where fixed \_\_\_\_\_ Working pressure 100  
 tested by hydraulic pressure to 200 Date of test 12-9-16 No. of Certificate 13542 Fire grate area 9.45F Description of safety valves \_\_\_\_\_  
 No. of safety valves \_\_\_\_\_ Area of each \_\_\_\_\_ 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 4'6" Length 10'0" Material of shell plates Steel Thickness 3/8" & 7/16"  
 Range of tensile strength 28/32 Description of riveting long. seams D. H. Lap. Diameter of rivet holes 23/32" Whether punched or drilled Drilled Pitch of rivets 2.376" Lap of plating 3 5/8" Per centage of strength of joint \_\_\_\_\_ Rivets 44.5 Working pressure of shell by rules 10.5 lbs. Plates 69.4  
 Thickness of shell crown plates 9/16" Radius of do. 54' No. of stays to do. none Diameter of stays \_\_\_\_\_  
 furnace—Top Radius Bottom 45" Length of furnace 32'2" Thickness of furnace side plates 1/2" - 3/4" Description of joint S. R. Lap. Working pressure of furnace by rules 100 Thickness of Ogee ring \_\_\_\_\_ Working pressure of Ogee ring by rules \_\_\_\_\_ Thickness of furnace crown plates 1/2" Radius of do. 22'2" Stayed by Hemisphere Diameter of uptake 10'2" x 14" Thickness of uptake plates 1/2" Thickness of tube plates front \_\_\_\_\_ back \_\_\_\_\_ Mean pitch of stay tubes in nest \_\_\_\_\_ Pitch in outer vertical rows \_\_\_\_\_  
 Diameter of tube plates FRONT 19/32" BACK 1/2" Working pressure of tube plates by rules \_\_\_\_\_ Tubes: Material \_\_\_\_\_  
 External diameter stay \_\_\_\_\_ Thickness stay \_\_\_\_\_ No. of threads per inch \_\_\_\_\_ Pitch of tubes \_\_\_\_\_  
 Working pressure by rules \_\_\_\_\_ Manhole compensation: Size of opening in shell plate \_\_\_\_\_ Section of compensating ring \_\_\_\_\_  
 No. of rivets and diameter of rivet holes \_\_\_\_\_ Outer row pitch at ends \_\_\_\_\_

The foregoing is a correct description for Cochrane & Co. Annan, Ltd. (sgd) G. Walker Manufacturer.

Dates of Survey while building: During progress of work in shops 1916. Aug. 18-24-31; Sept. 12 Drawing No. 9554  
 During erection on board vessel \_\_\_\_\_  
 Total No. of visits 4 Is the approved plan of boiler forwarded herewith Yes

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) The material and workmanship are good.  
The boiler has been built under Special Survey.

Survey Request Form No. 1408 attached.

Survey Fee ... £ 2: 2: 7 When applied for \_\_\_\_\_ 19\_\_\_\_  
 Travelling Expenses (if any) £ \_\_\_\_\_ When received \_\_\_\_\_ 19\_\_\_\_

Committee's Minute Glasgow, 19<sup>th</sup> Sept. 1916  
 Assigned Transmit to London.

(Signed) William H. Copeman  
 Engineer Surveyor to Lloyd's Register of Shipping.  
 TUES. 24 JAN 1928

