

# 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  
 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) 1 (Gross Tons) Net  
 Master                      Built at                      By whom built                      When built                       
 Boilers made at Annan By whom made Cochran & Co. Annan, Ltd. Annan When made 1916  
 Owners                      Port belonging to                     

**VERTICAL DONKEY BOILER**— No. 4088 Description Cochran Manufacturers of steel The Glasgow Crown Steel Co. Ltd.  
 Made at Annan By whom made Cochran 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. N. Lap. Diameter of rivet holes 23/32" Whether punched or  
 drilled Drilled Pitch of rivets 2.34/6" Lap of plating 3 5/8" Per centage of strength of joint                      Rivets 44.5 Working pressure of shell by  
 rules 10.5 lbs. Thickness of shell crown plates 9/16" Radius of do. 54' No. of stays to do. none Diameter of stays                      Diameter of  
 furnace—Top Radius Bottom 45" Length of furnace 32 1/2" 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 1/2" Stayed by Hemisphere Diameter of uptake 10 1/2" 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 plain Thickness stay plain 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 Cochran & Co. Annan, Ltd.  
 (Sgd.) E. Walker. Manufacturer.

Dates of Survey while building  
 During progress of work in shops 1916. Aug. 18-24-31; Sept. 12.  
 During erection on board vessel                       
 Total No. of visits 4.

Drawing No. 9554.Is the approved plan of boiler forwarded herewith Yes.

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

are good.The boiler has been built under Special Survey.

Survey Request Form  
 No. 1408 attached.

Survey Fee ... £ 2: 2: 1When applied for 19Travelling Expenses (if any) £                     When received 19(Signed) William H. Copeman.

Engineer Surveyor to Lloyd's Register of Shipping.

TUES. 24 JAN 1928

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

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