

REPORT ON BOILERS.

No. 1600.

Received at London Office

26 SEP 1927

of writing Report 9th Aug. 19 27 When handed in at Local Office 9th Aug. 19 27 Port of NAGASAKI.  
o. in Survey held at Annan, Scotland & Nagasaki. Date, First Survey 17th Nov. 1926. Last Survey 29th July, 19 27.  
Boat. on the Steel Screw Motor Vessel "C O L U M B I A M A R U". (Number of Visits 14.) Tons { Gross 5611.74 Net 3515.60  
ter Built at Nagasaki. By whom built Mitsubishi Zosen Kaisha, Ltd. When built 1927.  
ers made at Annan, Scotland. By whom made Cochran & Co (Annan) Ltd., When made 1926.  
ers Mitsubishi Shoji Kaisha, Ltd., Port belonging to Tokio.

VERTICAL DONKEY BOILER— No. One Description Cochran Type. Manufacturers of steel Phoenix Abt Hoeder Verein.  
e at Annan. By whom made Cochran & Co (Annan) Ltd. When made 1926. Where fixed In Machinery Space. Working pressure 100 lbs.  
d by hydraulic pressure to 200 Date of test 24-12-26 No. of Certificate 17264 Fire grate area 9 1/2 sq. ft. Description of safety valves Direct Spring Loaded.  
of safety valves 2 Area of each 1.767 sq. in. Pressure to which they are adjusted 105 lbs. If fitted with easing gear Yes If steam from main boilers can  
the donkey boiler. / Dia. of donkey boiler 4'-6" Length 11'-9" Material of shell plates Steel. Thickness 3/8" 7/16" 3/4" Range of tensile  
ngth 28/32 tons. Descrip. of riveting long. seams D.R. Lap. Dia. of rivet holes 23/32" Whether punched or drilled Drilled Pitch of rivet 2.156" 2.383" 2.364"  
of plating 3/4" Per centage of strength of joint Rivets 75.1% Plates 66.8% Working pressure of shell by rules 119.2 lb Thickness of shell crown plates 1/4"  
us of do. 2'-3" No. of Stays to do. / Dia. of stays / Diameter of furnace Top Hemisphere Bottom 3'-9" Length of furnace 2'-6 1/2"  
kness of furnace plates 1/4" Description of joint Welded Seam Working pressure of furnace by rules 183.2 lb. Thickness of furnace crown  
es 1/4" Ogee Ring 5/8" 22 1/2" Stayed by Hemis-phere Diameter of uptake 10 1/2" x 17" Thickness of uptake plates 1/4"  
kness of tubes plates. { Front 19/32" Back 1/4"  
The foregoing is a correct description,  
for COCHRAN & CO (ANNAN) LD., Manufacturer.  
(Sign) H.C. Woodham.

During progress of work in shops - - 1926. Nov. 17. 24. 30. Dec. 3. 7. 10. 14. 17. 21. 24. (at Annan, Scotland)  
During erection on board vessel - - - 1927. July 6. 13. 21. 29. (at Nagasaki)  
Total No. of visits 14.

Is the approved plan of boiler forwarded herewith No. See Glasgow Rpt. No. 46223.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special  
y in accordance with the Rules and approved plan.  
ials and workmanship good.  
bove boiler (constructed by Messrs. Cochran & Co (Annan) Ltd.,) has been satisfactorily fixed in  
essel and safety valves adjusted under steam to 105 lbs, per sq. in.,

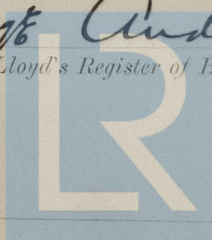
Survey Fee ... £ See Machinery Report. When applied for, 19...  
Travelling Expenses (if any) £ When received, 19...

Committee's Minute  
Assigned

FRI. 30 SEP 1927

See Rpt. attached

George Anderson  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.



Lloyd's Register  
Foundation