

REPORT ON BOILERS.

No. 34072

Received at London Office

WED. JUN. 3-1914

Date of writing Report 7. 4. 1914 When handed in at Local Office 191 Port of GLASGOW  
No. in Survey held at Paisley Date, First Survey 12. 1. 14 Last Survey 15. 4. 1914  
Reg. Book. on the 1/2 "Robina" (Number of Visits 13.) Gross 306 Tons Net 121  
Master Built at Ardrossan By whom built Ardrossan & Co. Ltd. When built 1914  
Engines made at Glasgow By whom made Mr. R. Macfarlane & Co. Ltd. When made 1914  
Boilers made at Paisley By whom made A. F. Craig & Co. Ltd. (539) When made 1914  
Registered Horse Power Owners New Shoreham Pier Co. Port belonging to Ardrossan

ULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel  
for record S ) Total Heating Surface of Boilers 1927 sq. ft. Is forced draft fitted Yes No. and Description of  
one single ended Working Pressure 160 Tested by hydraulic pressure to 320 Date of test 15. 4. 14  
Certificate 12656 Can each boiler be worked separately Yes Area of fire grate in each boiler 52.25 sq. ft. No. and Description of  
valves to each boiler Area of each valve Pressure to which they are adjusted  
fitted with easing gear In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler  
Distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers 13'-4 1/16" Length 11'-0"  
Material of shell plates S Thickness 1 1/16" Range of tensile strength 28/32 Are the shell plates welded or flanged Yes  
Material of riveting: cir. seams DR long. seams TR 10 BS Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 8"  
Material of butt straps 1'-4 1/8" Per centages of strength of longitudinal joint rivets 87.9 plate 85.9 Working pressure of shell by  
rules 175 Size of manhole in shell 16 x 12" Size of compensating ring 80" dia. No. and Description of Furnaces in each  
3 Corrugated Material S Outside diameter 3'-6 1/4" Length of plain part top 167" Thickness of plates crown 1 1/32" bottom 1 1/32"  
Material of longitudinal joint weld No. of strengthening rings 1 Working pressure of furnace by the rules 144 Combustion chamber  
Material S Thickness: Sides 5/8" Back 9/16" Top 5/8" Bottom 3/4" Pitch of stays to ditto: Sides 10 x 8" Back 4 1/2 x 8"  
If stays are fitted with nuts or riveted heads Yes Working pressure by rules 180 Material of stays S Diameter at  
top 1 1/2" Area supported by each stay 80 sq. in. Working pressure by rules 162 End plates in steam space: Material S Thickness 1 1/32"  
How are stays secured DN & W Work Working pressure by rules 165 Material of stays S Diameter at smallest part 5.79"  
Area supported by each stay 242 sq. in. Working pressure by rules 210 Material of Front plates at bottom S Thickness 4 1/4" Material of  
back plate S Thickness 1 1/4" Greatest pitch of stays 13 1/2 x 8" Working pressure of plate by rules 163 Diameter of tubes 2 1/2"  
Material of tube plates S Thickness: Front 4 1/4" Back 4 1/4" Mean pitch of stays 9 1/4" Pitch across wide  
spaces 13" Working pressures by rules 167 Girders to Chamber tops: Material S Depth and thickness of  
at centre 8 1/2 x 5/8 (2) Length as per rule 2'-5" Distance apart 8" Number and pitch of Stays in each 2 at 9"  
Working pressure by rules 171 Superheater or Steam chest: how connected to boiler Yes Can the superheater be shut off and the boiler worked  
separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet  
Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness  
fitted with rings Distance between rings Working pressure by rules End plates: Thickness How stayed  
Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear  
Survey request form  
1462 attached  
The foregoing is a correct description,  
A. F. CRAIG & CO., LTD. Manufacturer.

During progress of 1914 Jan'y 12. 15. 20. Feb'y 5. 11. 27. Is the approved plan of boiler forwarded herewith Yes  
work in shops - - -  
During erection on board vessel - - - Mar 9. 18. 26. Apr 1. 6. 10. 15. Total No. of visits 13.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Boiler has been built under Special Survey in accordance with the approved plan. The workmanship & material are of good quality.

Survey Fee To be charged on : When applied for. 191  
Travelling Expenses (if any) : When received. 191  
Signature of Engineer Surveyor to Lloyd's Register of British and Foreign Shipping. W. Gordon Murchison