

REPORT ON BOILERS.

No. 24981

TUES. MAR 19 1907

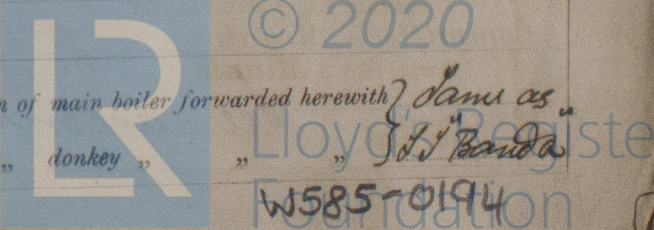
Port of Glasgow Received at London Office  
No. in Survey held at Glasgow Date, first Survey 12<sup>th</sup> Dec 04 Last Survey March 8<sup>th</sup> 1907  
Reg. Book. S.H. 14 on the S.S. "Bankdale" (Number of Visits 69)  
Master W. Hamilton Built at Port Glasgow By whom built W. Hamilton & Co. When built 1907  
Engines made at Glasgow By whom made David Rowan & Co. when made 1907  
Boilers made at do By whom made do when made 1907  
Registered Horse Power 10 Owners W. J. & Co. (Engs) Port belonging to Liverpool

MULTITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel The Clyde Bridge Steel Co. Ltd.

(Letter for record 15) Total Heating Surface of Boilers 927.5 Is forced draft fitted no No. and Description of Boilers One Single Ended Working Pressure 100 lb Tested by hydraulic pressure to 200 lb Date of test 30/11/06  
No. of Certificate 8397 Can each boiler be worked separately — Area of fire grate in each boiler 32.5 No. and Description of safety valves to each boiler 2 Spring Area of each valve 5.9 Pressure to which they are adjusted 105 lb  
Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no  
Smallest distance between boilers or uptakes and bunkers or woodwork abt 12" Mean dia. of boilers 10.6" Length 10.0"  
Material of shell plates slut Thickness 1 1/16" Range of tensile strength 24 ton Are the shell plates welded or flanged no  
Descrip. of riveting: cir. seams D. R. L. long. seams T. R. L. Diameter of rivet holes in long. seams 5/16" Pitch of rivets 3.4"  
Lap of plates or lap of butt straps 6 1/2" Per centages of strength of longitudinal joint rivets 75.28 Working pressure of shell by rules 104 lb Size of manhole in shell 16 x 12 Size of compensating ring 2-7 x 2-3 plate 72.4  
boiler 2 plain Material slut Outside diameter 37 7/8" Length of plain part top 76 Thickness of plates crown 9/16" bottom 103 bottom 9/16 x 7/8"  
Description of longitudinal joint weld No. of strengthening rings none Working pressure of furnace by the rules 100 lb Combustion chamber plates: Material slut Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 7/8" Pitch of stays to ditto: Sides 9 1/4 x 8 Back 8 3/8 x 8 3/8  
Top 9 1/4 x 8 If stays are fitted with nuts or riveted heads nut Working pressure by rules 103 Material of stays slut Diameter at smallest part 99 Area supported by each stay 74 Working pressure by rules 106 End plates in steam space: Material slut Thickness 1"  
Pitch of stays 21.0" How are stays secured D. Nut Working pressure by rules 100 Material of stays slut Diameter at smallest part 4.37  
Area supported by each stay 440 Working pressure by rules 100 Material of Front plates at bottom slut Thickness 2 3/32" Material of Lower back plate slut Thickness 1 1/16" Greatest pitch of stays 14 1/4 x 8 3/8 Working pressure of plate by rules 100 Diameter of tubes 3 1/4"  
Pitch of tubes 4 1/2 x 4 3/8 Material of tube plates slut Thickness: Front 2 3/32" Back 1 1/16" Mean pitch of stays 11" Pitch across wide water spaces 14 1/4" Working pressures by rules 107 lb Girders to Chamber tops: Material slut Depth and thickness of girder at centre 6 1/4 x 5/8 x 2 Length as per rule 28 Distance apart 8" Number and pitch of Stays in each 2-9 1/4"  
Working pressure by rules 108 Superheater or Steam chest: how connected to boiler none 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 holes — Pitch of rivets — Working pressure of shell by rules — Diameter of flue — Material of flue plates — Thickness —  
If stiffened 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 —

VERTICAL DONKEY BOILER— No. — Description — Manufacturers of steel —  
Made at — By whom made — When made — Where fixed — Working pressure —  
tested by hydraulic pressure to — Date of test — No. of Certificate — Fire grate area — 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 — Dia. of donkey boiler — Length — Material of shell plates — Thickness — Range of tensile strength — Descrip. of riveting long. seams — Dia. of rivet holes — Whether punched or drilled — Pitch of rivets —  
Lap of plating — Per centage of strength of joint Rivets — Working pressure of shell by rules — Thickness of shell crown plates — Plates —  
Radius of do. — No. of Stays to do. — Dia. of stays — Diameter of furnace Top — Bottom — Length of furnace —  
Thickness of furnace plates — Description of joint — Working pressure of furnace by rules — Thickness of furnace crown plates — Radius of do. — Stayed by — Diameter of uptake — Thickness of uptake plates —  
Thickness of water tubes —

The foregoing is a correct description,  
David Rowan & Co. Manufacturer.  
Dates of Survey while building: During progress of work in shops -- —  
During erection on board vessel -- —  
Total No. of visits —  
Is the approved plan of main boiler forwarded herewith? same as donkey  
" " " " —  
" " " " —  
" " " " —





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

This boiler has been constructed under Special Survey & is of good materials & workmanship. It has been fitted on board as stated Rpt H.

Certificate (if required) to be sent to

The amount of Entry Fee...	£	:	When applied for.
Special ...	£	:	19
Donkey Boiler Fee ...	£	:	When received.
Travelling Expenses (if any) £	:	:	19

Committee's Minute

Glasgow 19 MAR 1907

Assigned

See accompanying report Wm H

H Gardner-Smith.  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.



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Foundation