

REPORT ON BOILERS.

Hpl. No. 12895.

No. 23724

Port of GlasgowReceived at London Office TUES. 10 APR 1906No. in Survey held at AnnanDate, first Survey 24 Feb'y 05 Last Survey 15 Sept 1905

Reg. Book.

15 years on the

Master V. Williams Built at W. Hartlepool By whom built Furness, Withby & Co. Ltd. When built 1906Engines made at Hartlepool By whom made Richardson, Westgarth & Co. Ltd. when made 1906Boilers made at do. By whom made do. when made 1906Registered Horse Power 317 Owners Elder, Dempster & Co. Port belonging to Liverpool

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

(Letter for record)	Total Heating Surface of Boilers	Is forced draft fitted	No. and Description of Boilers
No. of Certificate	Working Pressure	Tested by hydraulic pressure to	Date of test
Can each boiler be worked separately	Area of fire grate in each boiler	No. and Description of safety valves to each boiler	
Area of each valve	Pressure to which they are adjusted	Are they fitted with easing gear	In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler
Smallest distance between boilers or uptakes and bunkers or woodwork	Mean dia. of boilers	Length	
Material of shell plates	Thickness	Range of tensile strength	Are the shell plates welded or flanged
Descrip. of riveting: cir. seams	long. seams	Diameter of rivet holes in long. seams	Pitch of rivets
Lap of plates or width of butt straps	Per centages of strength of longitudinal joint	Working pressure of shell by rules	
Size of manhole in shell	Size of compensating ring	No. and Description of Furnaces in each boiler	
Material	Outside diameter	Length of plain part	Thickness of plates
Description of longitudinal joint	No. of strengthening rings	Working pressure of furnace by the rules	Combustion chamber
plates: Material	Thickness: Sides	Back	Top
Top	If stays are fitted with nuts or riveted heads	Working pressure by rules	Material of stays
smallest part	Area supported by each stay	Working pressure by rules	End plates in steam space: Material
Pitch of stays	How are stays secured	Working pressure by rules	Material of stays
Area supported by each stay	Working pressure by rules	Material of Front plates at bottom	Thickness
Lower back plate	Thickness	Greatest pitch of stays	Working pressure of plate by rules
Pitch of tubes	Material of tube plates	Thickness: Front	Back
water spaces	Working pressures by rules	Girders to Chamber tops: Material	Depth and thickness of girder at centre
Length as per rule	Distance apart	Number and pitch of Stays in each	
Working pressure by rules	Superheater or Steam chest: how connected to boiler	Can the superheater be shut off and the boiler worked separately	
Diameter	Length	Thickness of shell plates	Material
Pitch of rivets	Working pressure of shell by rules	Diameter of flue	Material of flue plates
If stiffened with rings	Distance between rings	Working pressure by rules	End plates: Thickness
Working pressure of end plates	Area of safety valves to superheater	Are they fitted with easing gear	

VERTICAL DONKEY BOILER— No. 1 Description Bochran's patent Manufacturers of steel W. Beardmore & Co.Made at Annan By whom made Bochran & Co. When made 1905 Where fixed Household Working pressure 100 lbtested by hydraulic pressure to 200 Date of test 15/9/05 No. of Certificate 7630 Fire grate area 31 1/2 Description of safety valves SpringNo. of safety valves 2 Area of each 5.70 Pressure to which they are adjusted 100 lb If fitted with easing gear ye If steam from main boilers can enter the donkey boiler noDia. of donkey boiler 7.6 Length 16.3 Material of shell plates steel Thickness 9/16 Range of tensile strength 27-32Descrip. of riveting long. seams double Dia. of rivet holes 7/32 Whether punched or drilled drilled Pitch of rivets 2.77Lap of plating 4 1/2 Per centage of strength of joint 67.5 Working pressure of shell by rules 102 lb Thickness of shell crown plates 1/2Radius of do. 3.9 No. of Stays to do. none Dia. of stays ✓ Radius of furnace Top 3.3 Bottom ✓ Length of furnace ✓Thickness of furnace plates 23/32 Description of joint riveted Working pressure of furnace by rules 110 lb Thickness of furnace crown plates 23/32Radius of do. 3.3 Stayed by ✓ Diameter of uptake 2 1/2 Thickness of uptake plates 3/4 + 29/32Thickness of stay tubes 1/4

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building

During progress of work in shops - - -

During erection on board vessel - - -

Total No. of visits 10

1905: Feb'y 24. May 5. Jun 19. July 4. 7. Aug 4. 18. 25. Sep 8. 15.

Is the approved plan of main boiler forwarded herewith no

" " " donkey " " " " " " " " " " " "

W 911-0137

GENERAL REMARKS

(State quality of workmanship, opinions as to class, &c. This boiler has been built under Special Survey, the materials & workmanship are good. & has now been fittered on board

Certificate (if required) to be sent to

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee...	£	:	:	When applied for,
Special ...	£	:	:	19
Donkey Boiler Fee ...	£	2	2	When received,
Travelling Expenses (if any) £	:	:	:	19

Committee's Minute

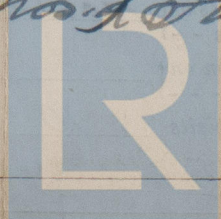
THUR. 12 APR 1906

Assigned

See minute on Npl. Rpt
No 12895

J. W. Dimmock *1st time*
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Thos. L. Houston



Lloyd's Register
Foundation