

REPORT ON BOILERS.

No. 6001

Port of *Belfast*
 Received at London Office *14 DEC 1905*
 No. in Survey held at *Belfast* Date, first Survey *Feb. 21st* Last Survey *Dec. 8th* 1905
 Reg. Book. *Y.P. 100* (Number of Visits *86*)
 on the *Y.P. 100*
 Master *W.P. 100* Built at *Belfast* By whom built *Workean Clark & Co. Ltd.* When built *1905*
 Engines made at *Belfast* By whom made *Workean Clark & Co. Ltd.* When made *1905*
 Boilers made at *Belfast* By whom made *Workean Clark & Co. Ltd.* When made *1905*
 Registered Horse Power *2091* Owners *Australasian S. N. Coy. Ltd.* belonging to *L. Caspar*

MULTITUBULAR BOILERS—~~MAIN~~, AUXILIARY OR ~~DONKEY~~.Manufacturers of Steel *Nicholson & Co. Ltd.*

(Letter for record *r*) Total Heating Surface of Boilers *991 sq ft* Is forced draft fitted *No* No. and Description of Boilers *Ans. 1st End Working Pressure 160 lb* Tested by hydraulic pressure to *320 lb* Date of test *7-9-05*
 No. of Certificate *304* Can each boiler be worked separately *✓* Area of fire grate in each boiler *322 sq ft* No. and Description of safety valves to each boiler *Two - Direct Spring* of each valve *4' 9 sq* Pressure to which they are adjusted *180 lb*
 Are they fitted with easing gear *Yes* 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 *about 18"* Mean dia. of boilers *10'-6"* Length *10'-0"*
 Material of shell plates *Steel* Thickness *7"* Range of tensile strength *28-32* Are the shell plates welded or flanged *No*
 Descrip. of riveting: cir. seams *Lap Double* Long. seams *Butt Double* Diameter of rivet holes in long. seams *15"* Pitch of rivets *6 3/8"*
 Lap of plates or width of butt straps *13 1/2"* Per centages of strength of longitudinal joint *92 1/2* Working pressure of shell by rules *176 lb* Size of manhole in shell *16" x 12"* Size of compensating ring *12"* No. and Description of Furnaces in each boiler *2 - Main* Material *Steel* Outside diameter *39 1/2"* Length of plain part *6'* Thickness of plates *3 1/2"* crown *3 1/2"* bottom *3 1/2"*
 Description of longitudinal joint *Weld* No. of strengthening rings *✓* Working pressure of furnace by the rules *176 lb* Combustion chamber plates: Material *Steel* Thickness: Sides *5"* Back *5"* Top *5"* Bottom *3 1/2"* Pitch of stays to ditto: Sides *9 x 9* Back *9 x 9*
 Top *9 x 7 1/2* stays are fitted with nuts or riveted heads *Nuts inside* Working pressure by rules *167 lb* Material of stays *Iron* Diameter at smallest part *1 1/2"* supported by *each stay* Working pressure by rules *191 lb* Plates in steam space: Material *Steel* Thickness *1"*
 Pitch of stays *15 x 16* How are stays secured *Plates & Washers* Working pressure by rules *210 lb* Material of stays *Steel* Diameter at smallest part *2 1/2"*
 Area supported by each stay *225 sq* Working pressure by rules *160 lb* Material of Front plates at bottom *Steel* Thickness *1"* Material of Lower back plate *Steel* Thickness *1"* Greatest pitch of stays *14"* Working pressure of plate by rules *249 lb* Diameter of tubes *3"*
 Pitch of tubes *4 1/2 x 4 1/2* Material of tube plates *Steel* Thickness: Front *1"* Back *1 1/2"* Mean pitch of stays *8 1/2 x 8 1/2* Pitch across wide water spaces *14"* Working pressures by rules *202 lb* Girders to Chamber tops: Material *Steel* Depth and thickness of girder at centre *6 1/2 x (3/4 x 2)* Length as per rule *26 5/8"* Distance apart *7 1/2"* Number and pitch of Stays in each *2-9"*
 Working pressure by rules *172 lb* 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 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 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 Plates Working pressure of shell by rules Thickness of shell crown 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
 Stayed by Diameter of uptake Thickness of uptake plates Thickness of water tubes

The foregoing is a correct description,
 FOR WORKMAN, CLARK & CO., LIMITED.

Manufacturer.

Dates of Survey while building
 During progress of work in shops - -
 During erection on board vessel - -
 Total No. of visits

Leather Sheet

Is the approved plan of boiler forwarded herewith

" " " donkey "

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W707-0158

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

RECEIVED

RECEIVED

Certificate (if required) to be sent to

The amount of Entry Fee...	£	100	When applied for.
Special ...	£	100	19
Donkey Boiler Fee ...	£	:	When received,
Travelling Expenses (if any) £	:	:	19

R. J. Bennett
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

FRI. 15 DEC 1905

Committee's Minute

Assigned



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