

Received at London Office..... 18

Reg. Book.

on the

ILERS, &c.— (Letter for record (18.)) Total Heating Surface of Boilers 3513 5
 and Description of Boilers Less Single ended Working Pressure 160 Tested by hydraulic pressure to 320
 te of test 16.6.96 Can each boiler be worked separately Yes Area of fire grate in each boiler 39 No. and Description of safety valves to
 h boiler Less Spring Area of each valve 5.94 Pressure to which they are adjusted 16 5/16 Are they fitted
 h easing gear Yes Smallest distance between boilers or uptakes and bunkers or woodwork 1.2 Mean diameter of boilers 14.0
 ngth 10.0 Material of shell plates Steel Thickness 1 1/8 Description of riveting: circum. seams Lap double long. seams R.B. Butts
 ameter of rivet holes in long. seams 1 3/16 Pitch of rivets 7 3/8 Lap of plates or width of butt straps 19 1/2
 r centages of strength of longitudinal joint rivets 85-6 plate 86-5 Working pressure of shell by rules 162 1/2 Size of manhole in ends 16" x 12"
 e of compensating ring No. and Description of Furnaces in each boiler 3 Horizon Material Steel Outside diameter 36 3/4
 ngth of plain part top 6' 0" crown 1/2 Description of longitudinal joint Welded No. of strengthening rings 5
 bottom 6' 6" bottom 1/2 Thickness of plates 1 1/2 Thickness: Sides 13 1/2 Back 13 1/2 Top 13 1/2 Bottom 13 1/2
 orking pressure of furnace by the rules 176 Combustion chamber plates: Material Steel Thickness: Sides 13 1/2 Back 13 1/2 Top 13 1/2 Bottom 13 1/2
 tch of stays to ditto: Sides 8 5/8 Back 8 1/2 Top 8 5/8 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 164
 aterial of stays Steel Diameter at smallest part 1 3/8 Area supported by each stay 72 Working pressure by rules 164 End plates in steam space:
 aterial Steel Thickness 1 1/2 Pitch of stays 18 1/4 x 18 How are stays secured Rn. 8 1/2 Working pressure by rules 162 Material of stays Steel
 ameter at smallest part 2 3/4 Area supported by each stay 328 Working pressure by rules 162 Material of Front plates at bottom Steel
 ickness 13 1/2 Material of Lower back plate Steel Thickness 2 1/2 Greatest pitch of stays 13 3/8 Working pressure of plate by rules 160
 ameter of tubes 3 1/4 Pitch of tubes 4 1/2 Material of tube plates Steel Thickness: Front 3 1/2 Back 3 1/4 Mean pitch of stays 9"
 tch across wide water spaces 14 1/4 Working pressures by rules 165 Girders to Chamber tops: Material Steel Depth and
 ckness of girder at centre 7 1/2 x 15 1/8 Length as per rule 2.6 Distance apart 8 5/8 Number and pitch of Stays in each Two 8 1/4
 orking pressure by rules 174 Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler worked
 arately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet
 es Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed
 orking pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

2 DONKEY BOILERS Description *Vertical with four crop tubes*
 Made at *Sheffield* By whom made *J. Ludron & Co* When made *21.2.96* Where fixed *On deck*
 Working pressure *80* tested by hydraulic pressure to *160* No. of Certificate *1219* Fire grate area *264* Description of safety valves *Spring*
 No. of safety valves *2* Area of each *5.94* Pressure to which they are adjusted *80 lb* If fitted with easing gear *yes* If steam from main boilers enter the donkey boiler *no* Diameter of donkey boiler *6.6"* Length *13.6"* Material of shell plates *Steel* Thickness *1/16"*
 Description of riveting long seams *Lap double* Diameter of rivet holes *1 1/16"* Whether punched or drilled *Machine* Pitch of rivets *2"*
 Lap of plating *4 1/4"* Per centage of strength of joint Rivets *73.4* Plates *70.4* Thickness of shell crown plates *1 1/32"* Radius of do. *5.9"* No. of Stays to do. *6*
 Dia. of stays *1 1/8"* Diameter of furnace Top *5.4"* Bottom *5.10 1/2"* Length of furnace *5.6"* Thickness of furnace plates *5/8"* Description of joint *Lap Single* Thickness of furnace crown plates *1/16"* Stayed by *Same as shell* Working pressure of shell by rules *88*
 Working pressure of furnace by rules *82 lb* Diameter of uptake *15"* Thickness of uptake plates *1/16"* Thickness of water tubes *3/8"*

SPARE GEAR. State the articles supplied:— *Propeller, 2 main bearing bolts & nuts, 2 top end bolts & nuts, 2 bottom end bolts & nuts, 1 set of shaft coupling bolts & nuts, 1 set of feed & 1 set of bilge pump valves, piston springs, nuts, bolts & iron assorted.*

The foregoing is a correct description,
J. Richardson Manufacturer.
 For THOMAS RICHARDSON & SONS, LIMITED

General Remarks (State quality of workmanship, opinions as to class, &c.) *The machinery has been specially surveyed during construction the material and workmanship good & renders the vessel eligible in my opinion to have the Record L.M.C. 8.96 in the Register Book of the Society.*

It is submitted that this vessel is eligible for THE RECORD. L.M.C. 8.96.

10.8.96 *10.8.96.*

Certificate (if required) to be sent to *here*.

The amount of Entry Fee.	£	2:	:	When applied for,
Special	£	31:	6:	7.8.96.
Donkey Boiler Fee	£	:	:	When received,
Travelling Expenses (if any)	£	:	:	7.8.96.

Committee's Minute **TUES. AUG 11 1896**

Assigned

MACHINERY CERTIFICATE WRITTEN.

Richard Hines
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



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Lloyd's Register Foundation

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