

REPORT ON BOILERS.

No. 18444

Port of *Hull*

Received at London Office

SAT 27 OCT 1906

No. in Survey held at *Hull* Date, first Survey *Apr. 9th* Last Survey *26th Oct* 1906

Reg. Book. *22 Supp. on the Steel S.S. S. Teno* (Number of Visits) Gross *2538* Net *1645*

Master Built at *Hull* By whom built *Messrs Earle & Co Ltd* When built *1906*

Engines made at *Hull* By whom made *Messrs Earle & Co Ltd* when made *1906*

Boilers made at *Hull* By whom made *Messrs Earle & Co Ltd.* when made *1906*

Registered Horse Power *270* Owners *Compania Sud Americana de Vap* Port belonging to *Valparaiso*

MULTITUBULAR BOILERS—~~MAIN, AUXILIARY OR DONKEY.~~—Manufacturers of Steel *Hoerder Berg Works and Hatten Veeen Hoerde Germany*

(Letter for record *S*) Total Heating Surface of Boilers *780* ϕ Is forced draft fitted *No* No. and Description of Boilers *One cyl. Multitubular Working Pressure 100 lbs* Tested by hydraulic pressure to *200 lbs* Date of test *20.9.06*

No. of Certificate *1506* *Can each boiler be worked separately* Area of fire grate in each boiler *24* ϕ No. and Description of safety valves to each boiler *Two Spring* Area of each valve *4.9* \square Pressure to which they are adjusted *100 lbs*

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 *15"* Mean dia. of boilers *11'-0"* Length *8'-6"*

Material of shell plates *Steel* Thickness *5/8"* Range of tensile strength *28.32* Are the shell plates welded or flanged *No*

Descrip. of riveting: cir. seams *L. S.* long. seams *D. B. S. D. L.* Diameter of rivet holes in long. seams *7/8"* Pitch of rivets *3 3/4"*

Lap of plates or width of butt straps *9 1/2"* Per centages of strength of longitudinal joint rivets *76.16* plate *76.6* Working pressure of shell by rules *100 lbs* Size of manhole in shell *16" x 12"* Size of compensating ring *30" x 28" x 5/8"* No. and Description of Furnaces in each boiler *Two plain* Material *steel* Outside diameter *3'-3 1/8"* Length of plain part *5'-0"* Thickness of plates *9/16"* crown *9/16"* bottom *9/16"*

Description of longitudinal joint *Welded* No. of strengthening rings *0* Working pressure of furnace by the rules *138 lbs* Combustion chamber plates: Material *Steel* Thickness: Sides *9/16"* Back *9/16"* Top *9/16"* Bottom *9/16"* Pitch of stays to ditto: Sides *10" x 8 1/2"* Back *11" x 9 1/2"*

Top *11" x 8 1/2"* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *103 lbs* Material of stays *Steel* Diameter at smallest part *1 3/8" x 1 1/2"* Area supported by each stay *104* \square Working pressure by rules *113 lbs* End plates in steam space: Material *Steel* Thickness *3/4"*

Pitch of stays *16" x 15"* How are stays secured *D. nuts* Working pressure by rules *104 lbs* Material of stays *Steel* Diameter at smallest part *2.65* \square Area supported by each stay *240* \square Working pressure by rules *110 lbs* Material of Front plates at bottom *Steel* Thickness *33/32"* Material of Lower back plate *Steel* Thickness *33/32"* Greatest pitch of stays *14"* Working pressure of plate by rules *124 lbs* Diameter of tubes *3 1/2"*

Pitch of tubes *4 3/4" x 4 1/8"* Material of tube plates *Steel* Thickness: Front *33/32"* Back *33/32"* Mean pitch of stays *9 5/8"* Pitch across wide water spaces *13 1/2"* Working pressures by rules *101 lbs* Girders to Chamber tops: Material *Steel* Depth and thickness of girder at centre *6 1/2" x 1 1/2"* Length as per rule *2'-0" 33/32"* Distance apart *11"* Number and pitch of Stays in each *Two 8 1/2"*

Working pressure by rules *142 lbs* 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 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 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

plates Radius of do. Stayed by Diameter of uptake Thickness of uptake plates

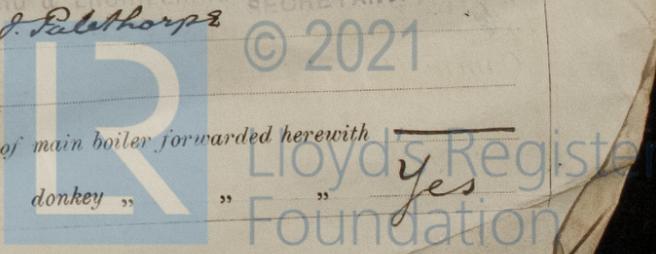
Thickness of water tubes

The foregoing is a correct description, FOR EARLE'S Manufacturer. *F. J. Palethorpe*

Dates of Survey while building { During progress of work in shops - - } *See 1st Entry Machy. Report* { During erection on board vessel - - - } Total No. of visits

Is the approved plan of main boiler forwarded herewith " " " donkey " " " " *Yes*

5020-4974E00-959E00



GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. This boiler has been built under special survey of good material and workmanship, and tested by hydraulic pressure to 200 lbs found satisfactory. It has been fitted on board, tested under steam, and safety valves adjusted to 100 lbs. and the vessel is eligible in my opinion for record as shown on other part of report.

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

James Barclay
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

TUES. 30 OCT 1906

Assigned

see Minute on attached rpt.



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