

REPORT ON BOILERS.

No. 23807

Received at London Office

AUG. 18 AUG 1908

Date of writing Report 17th Aug 1908 When handed in at Local Office 17th Aug 1908 Port of *Sunderland*

No. in Survey held at *Sunderland* Date, First Survey *10th August 1908*

Reg. Book. on the *S. S. Lutetian* (Number of Visits *1*) Gross *4754.50*
Tons Net *2966.62*

Master *L. E. Barret.* Built at *Sunderland* By whom built *Messrs J. Dickinson & Sons Ltd* When built *1905*

Engines made at *Sunderland* By whom made *Messrs J. Dickinson & Sons Ltd* when made *1905*

Boilers made at *Sunderland* By whom made *Messrs J. Dickinson & Sons Ltd* when made *1905*

Registered Horse Power Owners *Lutetian Navigation Co Ltd* Port belonging to *London*

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *Messrs J. Dickinson & Sons Ltd*

(Letter for record *S*) Total Heating Surface of Boilers *1441* Is forced draft fitted *no* No. and Description of Boilers *one S.E. Cylindrical Multi-Working Pressure 120lb* Tested by hydraulic pressure to *240lb* Date of test *27/6/08*

No. of Certificate *2710* Can each boiler be worked separately *✓* Area of fire grate in each boiler *39* No. and Description of safety valves to each boiler *2 spring* Area of each valve *7.07* Pressure to which they are adjusted *120lb*

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 *on deck* Mean dia. of boilers *12' 0"* Length *11' 0"*

Material of shell plates *steel* Thickness *3/4"* Range of tensile strength *20/32* Are the shell plates welded or flanged *no*

Descrip. of riveting: cir. seams *d.v.lap.* long. seams *d.r.d.b.s.* Diameter of rivet holes in long. seams *1"* Pitch of rivets *5 1/6"*

Lap of plates or width of butt straps *10 3/8"* Per centages of strength of longitudinal joint rivets *90.3* Working pressure of shell by rules *122lb* Size of manhole in shell *16x12"* Size of compensating ring *8x3/4"* No. and Description of Furnaces in each boiler *2 plain* Material *steel* Outside diameter *42"* Length of plain part top *7' 2 1/8"* Thickness of plates crown *4 1/4"* bottom *1 1/4"*

Description of longitudinal joint *weld* No. of strengthening rings *✓* Working pressure of furnace by the rules *121lb* Combustion chamber plates: Material *steel* Thickness: Sides *9/16"* Back *9/16"* Top *9/16"* Bottom *15/16"* Pitch of stays to ditto: Sides *11x7 3/4"* Back *10x9"*

Top *10x8 1/2"* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *121lb* Material of stays *steel* Diameter at smallest part *1.45"* Area supported by each stay *90"* Working pressure by rules *120.5lb* End plates in steam space: Material *steel* Thickness *27/32"*

Pitch of stays *17x16 1/2"* How are stays secured *d.n.w.* Working pressure by rules *120lb* Material of stays *steel* Diameter at smallest part *3.25"*

Area supported by each stay *280.5"* Working pressure by rules *120.5lb* Material of Front plates at bottom *steel* Thickness *25/32"* Material of Lower back plate *steel* Thickness *11/16"* Greatest pitch of stays *12 1/2 x 10"* Working pressure of plate by rules *120lb* Diameter of tubes *3"*

Pitch of tubes *4 1/4 x 4 1/4"* Material of tube plates *steel* Thickness: Front *25/32"* Back *3/4"* Mean pitch of stays *12 3/4 x 8 1/2"* Pitch across wide water spaces *13 1/2"* Working pressures by rules *120lb* Girders to Chamber tops: Material *steel* Depth and thickness of girder at centre *6 1/2 x 2"* Length as per rule *33 7/32"* Distance apart *8 1/2"* Number and pitch of Stays in each *2-10"*

Working pressure by rules *122lb* 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 *✓*

The foregoing is a correct description,

John Dickinson & Sons, Limited.

Manufacturer.

Dates of Survey { During progress of work in shops - - }
while { During erection on board vessel - - - }

*See Machinery report*Is the approved plan of boiler forwarded herewith *yes*Total No. of visits *✓*

GENERAL REMARKS

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

This Donkey Boiler has been constructed under special survey, the workmanship and materials used are both of good quality, the Boiler has been satisfactorily mounted & fitted on board & the safety Valve adjusted under steam

Survey Fee ... £ : : When applied for, ... 19...
Travelling Expenses (if any) £ : : When received, ... 19...

R. W. Coomber.
Engineer-Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

FRI. 21 AUG 1908

Assigned

see minute on attached report

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