

# REPORT ON BOILERS.

Received at London Office

TUES. 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 Last Survey 10th August 1908

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

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

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

Boilers made at Sunderland By whom made Messrs J. Simpson & 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. Simpson & Sons Ltd

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

No. of Certificate 2710 Can each boiler be worked separately yes Area of fire grate in each boiler 39 sq ft No. and Description of safety valves to each boiler 2 spring Area of each valve 7.07 sq in Pressure to which they are adjusted 120 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 on deck Mean dia. of boilers 12.0 in Length 11.0 in

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

Descrip. of riveting: cir. seams d.r.lap. long. seams d.r.d.b.s. Diameter of rivet holes in long. seams 1 in Pitch of rivets 5 1/16 in

Lap of plates or width of butt straps 10 3/8 in Per centages of strength of longitudinal joint rivets 90.3 Working pressure of shell by rules 122 lbs Size of manhole in shell 16 x 12 in Size of compensating ring 8 x 3/4 in No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 42 in Length of plain part top 7.2 1/8 in Thickness of plates crown 4 1/4 in bottom 1 1/4 in

Description of longitudinal joint weld No. of strengthening rings 1 Working pressure of furnace by the rules 121 lbs Combustion chamber plates: Material steel Thickness: Sides 9/16 in Back 9/16 in Top 9/16 in Bottom 15/16 in Pitch of stays to ditto: Sides 11 x 7 3/4 in Back 10 x 9 in

Top 10 x 8 1/2 in If stays are fitted with nuts or riveted heads nuts Working pressure by rules 121 lbs Material of stays steel Area at smallest part 1.45 sq in Area supported by each stay 90 sq in Working pressure by rules 120 lbs End plates in steam space: Material steel Thickness 27/32 in Diameter at smallest part 3.25 in

Pitch of stays 17 x 16 1/2 in How are stays secured d.n.w. Working pressure by rules 120 lbs Material of stays steel Area at smallest part 3.25 sq in

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

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

Working pressure by rules 122 lbs Superheater or Steam chest; how connected to boiler yes Can the superheater be shut off and the boiler worked separately yes 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.  
Ad Chapman

Dates of Survey                      During progress of work in shops                      Is the approved plan of boiler forwarded herewith yes

while building                      During erection on board vessel                      Total No. of visits                     

See Machinery report

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 valves admitted 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

