

REPORT ON BOILERS

No. 25397

Received at London Office

TUE. SEP. 3-1912

Date of writing Report 19 When handed in at Local Office 2.9.12 Port of **SUNDERLAND.**
 No. in Survey held at **SUNDERLAND.** Date, First Survey 4 July Last Survey 20 Aug 1912
 Reg. Book. on the **S.S. Finchley.** (Number of Visits 6) Gross 4174 Tons Net 2560
 Master **McKechie** Built at **S. I. C.** By whom built **J. Dickenson & Sons Ltd** When built 1912
 Engines made at **S. I. C.** By whom made **J. Dickenson & Sons Ltd** when made 1912
 Boilers made at **"** By whom made **do** when made 1912
 Registered Horse Power 350 Owners **British S. I. C. (Walthamstow)** belonging to **London**

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel **J. Spence & Sons Ltd**
 (Letter for record **S.**) Total Heating Surface of Boilers 877 sq. ft. Is forced draft fitted **-** No. and Description of Boilers **Marine type** Working Pressure 90 lb. Tested by hydraulic pressure to 180 Date of test 26.7.12
 No. of Certificate 3031 Can each boiler be worked separately **✓** Area of fire grate in each boiler 23 sq. ft. No. and Description of safety valves to each boiler **two Spring** Area of each valve 4.9 Pressure to which they are adjusted 83 lb.
 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 18" Mean dia. of boilers 10' 6" Length 10' 9"
 Material of shell plates **S.** Thickness $\frac{1}{32}$ Range of tensile strength 28-32 Are the shell plates welded or flanged **no**
 Descrip. of riveting: cir. seams **S. R. Lap.** long. seams **S. R. Lap.** Diameter of rivet holes in long. seams $\frac{5}{16}$ Pitch of rivets $3\frac{1}{2}$
 Lap of plates on width of butt straps 6" Per centages of strength of longitudinal joint rivets 80.39 plate 74.58 Working pressure of shell by rules 91.2 lb. Size of manhole in shell 16" x 12" Size of compensating ring $7\frac{1}{8} \times 19\frac{1}{32}$ No. and Description of Furnaces in each boiler **two plain** Material **S.** Outside diameter 3ft. Length of plain part top 6' 2" bottom 7' 8" Thickness of plates crown $\frac{1}{2}$ bottom $\frac{1}{2}$
 Description of longitudinal joint **S. R. Lap.** No. of strengthening rings Working pressure of furnace by the rules 92.2 Combustion chamber plates: Material **S.** Thickness: Sides $\frac{1}{8}$ Back $\frac{1}{32}$ Top $\frac{5}{8}$ Bottom $\frac{1}{16}$ Pitch of stays to ditto: Sides 12 x 11 Back 11 x 11 1/2
 Top $7\frac{1}{2} \times 12$ If stays are fitted with nuts on riveted heads **nuts.** Working pressure by rules 96 Material of stays **S.** Diameter at smallest part 1.35 Area supported by each stay 126.2 Working pressure by rules 91.2 End plates in steam space: Material **S.** Thickness $\frac{2}{32}$
 Pitch of stays 15' 14" How are stays secured **thru** Working pressure by rules 94.2 Material of stays **S.** Diameter at smallest part 1.6
 Area supported by each stay 257.4 Working pressure by rules 98 Material of Front plates at bottom **S.** Thickness $\frac{1}{16}$ Material of Lower back plate **S.** Thickness $\frac{1}{32}$ Greatest pitch of stays 12' 8" Working pressure of plate by rules 90 Diameter of tubes $3\frac{1}{4}$
 Pitch of tubes $4\frac{3}{4} \times 4\frac{1}{2}$ Material of tube plates **S.** Thickness: Front $\frac{1}{16}$ Back $\frac{1}{16}$ Mean pitch of stays $4\frac{3}{4} \times 11\frac{5}{8}$ Pitch across wide water spaces 1' 4" Working pressures by rules 97 lb. Girders to Chamber tops: Material **S.** Depth and thickness of girder at centre $5\frac{3}{4} \times 1\frac{1}{4}$ Length as per rule $2' 3\frac{5}{16}$ Distance apart $7\frac{1}{2}$ Number and pitch of Stays in each one 12
 Working pressure by rules 94 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,

J. Dickenson Manufacturer.

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

1912. Jul 4 to 20 Aug.
 (6) Total No. of visits

Is the approved plan of boiler forwarded herewith **Yes**

GENERAL REMARKS

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

Materials & workmanship good. tested by hydro pressure. & found sound & tight at 180 lb.

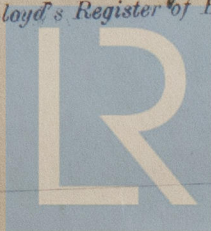
Survey Fee ... £ 2 : 2 :
 Travelling Expenses (if any) £ : :
 When applied for, 29.8.1912
 When received, 4/9/12

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

Committee's Minute

FRI. SEP. 6-1912

Assigned



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