

REPORT ON BOILERS.

MON. 28 DEC 1908

No. 5582

Slid rpt No 23940.

Received at London Office

SAT. 26 SEP 1908

Date of writing Report 25/9/08 When handed in at Local Office 25/9 1908 Port of MIDDLESBROUGH-ON-TEES.

No. in Survey held at Stockton-on-Tees Date, First Survey 29th July Last Survey 24th Sept 1908

Reg. Book. on the Donkey Boiler for SS. No. 258 1/2 "Cataluna" Number of Visits 7 Tons } Gross 2312.10 Net 1684.39

Master Jortuno Built at Sunderland By whom built R. Thompson & Son When built 1908

Engines made at Sunderland By whom made North Eastern Marine Eng^g 400^{2d} when made 1908

Boilers made at Stockton-on-Tees By whom made Thos Sudron & Co. Lim. when made 1908

Registered Horse Power ✓ Owners Compania Anonima Blk No 2403 Port belonging to Sevilla

MULTITUBULAR BOILERS—~~MAIN, AUXILIARY OR~~ DONKEY.—Manufacturers of Steel Mason J. Spencer & Sons

(Letter for record (5)) Total Heating Surface of Boilers 582 Is forced draft fitted no No. and Description of

Boilers One single Ended Working Pressure 100 Tested by hydraulic pressure to 200 Date of test 24.9.08

No. of Certificate 4190 Can each boiler be worked separately ✓ Area of fire grate in each boiler ✓ No. and Description of

safety valves to each boiler 2 Spring patent Area of each valve 7.07^{sq} 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 — Mean dia. of boilers 9'-6" Length 8'-0"

Material of shell plates Steel Thickness 19/32 Range of tensile strength 28-32 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams Lap single long. seams Lap-3 Part Diameter of rivet holes in long. seams 15/16 Pitch of rivets 3 3/8

Lap of plates or width of butt straps 6 1/2 Per centages of strength of longitudinal joint rivets 81.7 Working pressure of shell by

rules 101 lbs Size of manhole in shell 16" x 12" Size of compensating ring 5 1/2 x 13/16 No. and Description of Furnaces in each

boiler 2 plain Material steel Outside diameter 36" Length of plain part 60" Thickness of plates 17/32

Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 103 Combustion chamber

plates: Material steel Thickness: Sides 1/2" Back 17/32 Top 1/2" Bottom 3/8 Pitch of stays to ditto: Sides 9 1/2 Back 9 3/8 + 9 1/2

Top 9" one If stays are fitted with nuts or riveted heads nuts Working pressure by rules 102 Material of stays steel Diameter at

smallest part 1.23" Area supported by each stay 87.2 Working pressure by rules 109 End plates in steam space: Material steel Thickness 13/16

Pitch of stays 16 x 18 How are stays secured nuts & cone washers Working pressure by rules 108 Material of stays steel Diameter at smallest part 2.09

Area supported by each stay 288 Working pressure by rules 123 Material of Front plates at bottom steel Thickness 13/16 Material of

Lower back plate steel Thickness 13/16 Greatest pitch of stays 13 x 9 1/2 Working pressure of plate by rules 176 Diameter of tubes 3 1/4

Pitch of tubes 4 1/2 x 4 1/2 Material of tube plates steel Thickness: Front 13/16 Back 1/8 Mean pitch of stays 11 Pitch across wide

water spaces 13 3/4 Working pressures by rules 125 Girders to Chamber tops: Material steel Depth and thickness of

girder at centre 5 1/2 x 1 1/4 Length as per rule 21 1/4 Distance apart 9 Number and pitch of Stays in each one @ 8"

Working pressure by rules 100 Superheater or Steam chest: how connected to boiler none 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,
THOMAS SUDRON & CO. LIMITED. R. Johnston Manufacturer.

Dates of Survey } During progress of } 1908 July 29. Aug 5. 25. Sep 1. 5. 21. 24 } Is the approved plan of boiler forwarded herewith yes
while } During erection on }
building } board vessel } Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey in accordance with the approved plan and Secretary's letter. The materials and workmanship are good and when tested by hydraulic pressure was found tight and satisfactory. The Boiler has been forwarded to Sunderland where it is to be fitted on board. This boiler has been satisfactorily mounted & fitted on board

Survey Fee ... £ 2 : 2 : 0 When applied for, 19 Monthly fee
Travelling Expenses (if any) £ ✓ When received, 20.10.1908

Wm Morrison & R.W. Coomber
Engineer Surveyors to Lloyd's Register of British and Foreign Shipping.

Committee's Minute **TUES 29 DEC 1908**

Assigned

