

REPORT ON BOILERS.

No. 9774

SAT. 25 AUG. 1917

Received at London Office

Date of writing Report

191

When handed in at Local Office

8.6.17

Port of

Middlesbrough

No. in Survey held at

Stockton-on-Tees

Date, First Survey

4th April 1917

Last Survey

30th May 1917

Reg. Book.

on the Donkey Boiler of S.S. Embleton

(Number of Visits)

(S.S.N. 509)

Gross

Tons

Net

Master

Built at Stockton

By whom built Messrs Roper & Sons

When built

Engines made at

Stockton

By whom made Messrs Blair & Co. Ltd.

When made

Boilers made at

Stockton

By whom made Messrs John Sudron & Co. Ltd. (No. 3663)

When made 1917

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

John Spencer & Sons

(Letter for record (P)) Total Heating Surface of Boilers 991 sq ft 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 30.5.17

No. of Certificate 5765 Can each boiler be worked separately Area of fire grate in each boiler 34 sq ft No. and Description of

safety valves to each boiler 2 direct spring Area of each valve 5.94 Pressure to which they are adjusted 105 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 on upper deck External dia. of boilers 10'-6" Length 10'-6"

Material of shell plates Steel Thickness 5/8" Range of tensile strength 29-33 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams S. lap long. seams 3 Riv. lap Diameter of rivet holes in long. seams 15/16" Pitch of rivets 3 5/8"

Lap of plates on width of butt straps 6 1/2" Per centages of strength of longitudinal joint rivets 77.9 Working pressure of shell by

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

boiler 2 plain Material steel Outside diameter 38" Length of plain part top 84 1/2" Thickness of plates crown 1 1/2" bottom 1 1/4"

Description of longitudinal joint Weld No. of strengthening rings none Working pressure of furnace by the rules 100 Combustion chamber

plates: Material steel Thickness: Sides 3/16" Back 1/2" Top 3/16" Bottom 1/4" Pitch of stays to ditto: Sides 9 1/2" Back 8 1/2" x 9"

Top 9 1/4" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 100 Material of stays iron Diameter at

smallest part 1.69 Area supported by each stay 95 Working pressure by rules 106 End plates in steam space: Material steel Thickness 1 1/2"

Pitch of stays 8 1/2" x 18 1/2" to tubes 22" x 48" doubling Working pressure by rules 100 Material of stays steel Diameter at smallest part 4.3

Area supported by each stay 402 Working pressure by rules 111 Material of Front plates at bottom steel Thickness 1 1/2" Material of

Lower back plate steel Thickness 1 1/2" Greatest pitch of stays 14" x 9" Working pressure of plate by rules 159 Diameter of tubes 3 1/4"

Pitch of tubes 4 3/16" x 4 5/8" Material of tube plates steel Thickness: Front 1 1/2" Back 5/8" Mean pitch of stays 11 15/32" Pitch across wide

water spaces 13 3/4" Working pressures by rules 106 Girders to Chamber tops: Material iron Depth and thickness of

girder at centre 7" x 1 1/2" Length as per rule 26 1/4" Distance apart 9 1/4" Number and pitch of Stays in each one

Working pressure by rules 138 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.

Manufacturer.

R. J. Johnston

Dates of Survey

1916. Apr. 4. 11. July 12. 18. Aug 11. 24

Is the approved plan of boiler forwarded herewith

yes

Sep 13. 29. Nov 13. 30. Dec 5. 1917. Mar 29

Total No. of visits

14

GENERAL REMARKS

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

This boiler has been built under

Special Survey: is of good material and workmanship and on completion was tested by hydraulic pressure with satisfactory results. The boiler is to be fitted on board at this port. The boiler has been satisfactorily secured on board, examined under steam and safety valves adjusted.

Survey Fee

£ 3-6-0

When applied for,

Monthly a/c

Travelling Expenses (if any) £

When received,

191

Wm Morrison

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

TUE. AUG. 28 1917.

Committee's Minute

Assigned



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Lloyd's Register Foundation

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