

## REPORT ON BOILERS.

No. 354

Date of writing Report

191

When handed in at Local Office

Received at London Office

FRI. 22 JUL. 1921

TUE. AUG. 3 1920

No. in Survey held at

Reg. Book.

OK BOSTON

Date, First Survey

191 Port of SHEFFIELD

Last Survey

(Number of Visits)

191

Master J. Jones

Built at Limerick

By whom built Coates Construction Co Ltd

Tons { Gross  
Net

Engines made at Glasgow (Hillman)

By whom made

Frank Ritchie &amp; Co Ltd

When built 1921

Boilers made at Oldbury

By whom made

Edwin Danks &amp; Co Ltd

When made

Registered Horse Power

Owners

(Clement Angell, Limerick)

When made

Port belonging to Limerick

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

John Spencer &amp; Co Ltd

Letter for record

S

Total Heating Surface of Boilers

910 sq

Is forced draft fitted

No. and Description of

Boilers One, Single Ended, Cyl. Multitubular Working Pressure

180 lb

Tested by hydraulic pressure to

360 lb

Date of test 23.7.20

No. of Certificate 448

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of

Safety valves to each boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork

Material of shell plates

Steel

Thickness  $\frac{3}{8}$ "

Mean dia. of boilers

Length 11'0"

Descrip. of riveting: cir. seams

D. Riv

Range of tensile strength

292/34

Are the shell plates welded or flanged

Gap of plates or width of butt straps

12 1/2"

Per centages of strength of longitudinal joint

rivets 95.8

Pitch of rivets

5 1/2"

Rules 180 lb

Size of manhole in shell

16" x 12"

Size of compensating ring

7 1/2" x 2 1/2"

Working pressure of shell by

Material Steel

Outside diameter

36 1/2"

No. and Description of Furnaces in each

Description of longitudinal joint

Welded

Length of plain part

top 7'4"

Thickness of plates

crown 1/2"

Material Steel

Thickness: Sides

1/8"

Back

1/8"

Top

1/8"

Bottom

1/8"

Pitch of stays to ditto: Sides

9 1/2" x 9"

Back 9 1/2" x 9"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

180 lb

Material of stays

Steel

Area at

Area of stays

202 1/2" x 14"

How are stays secured

D. Riv

Working pressure by rules

180 lb

Material of stays

Steel

Area at

Area supported by each stay

287 sq

Working pressure by rules

180 lb

Material of stays

Steel

Area at smallest part

505 sq

Material of back plate

Steel

Thickness

1 1/2"

Greatest pitch of stays

12" x 10"

Working pressure of plate by rules

180 lb

Diameter of tubes

Material of tube plates

Steel

Thickness: Front

1 1/2"

Back

3/4"

Mean pitch of stays

7"

Pitch across wide

Working pressures by rules

180 lb

Girders to Chamber tops: Material

Steel

Depth and thickness of

Stays in each

Two, 9"

Length as per rule

30 1/2"

Distance apart

10"

Number and pitch of Stays in each

Two, 9"

Pitch across wide

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Crown plates

Thickness

How stayed

Working pressure of shell by rules

Material

Description of longitudinal joint

Diam. of rivet holes

Crown plates

Thickness

How stayed

Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Pressure to which each is adjusted

Is Easing Gear fitted

Is Easing Gear fitted

Working pressure of shell by rules

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FOR EDWIN DANKS &amp; COMPANY (OLD BURRY) LIMITED

The foregoing is a correct description,

J. Henry

Manufacturer

Is the approved plan of boiler forwarded herewith

Total No. of visits

## GENERAL REMARKS

(State quality of workmanship, opinions