

REPORT ON BOILERS.

No. 82224

9 JAN 1928

Received at London Office

Date of writing Report

192

When handed in at Local Office

7.1. 1928

Port of

Newcastle-on-Tyne

No. in
Reg. Book.

Survey held at

SOUTH SHIELDS

Date, First Survey

27 April

Last Survey

2 Jan 1928

on the

S.S. "KIRNWOOD"

(Number of Visits

Gross 3741

Net 2272

Master

Built at

South Shields

By whom built

John Readhead & Sons Ltd

Yard No.

487

When built

1928-1

Engines made at

South Shields

By whom made

John Readhead & Sons Ltd

Engine No.

487

When made

1928

Boilers made at

South Shields

By whom made

John Readhead & Sons Ltd.

Boiler No.

487

When made

1928

Nominal Horse Power

334

Owners

Joseph Constantine Steam Ship Line Ltd

Port belonging to

MIDDLESBROUGH

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY, OR DONKEY.~~

Manufacturers of Steel

The Steel Company of Scotland Lim. ✓

(Letter for Record

r ✓

Total Heating Surface of Boilers

4564 sq. ft.

Is forced draught fitted

yes ✓

Coal or Oil fired

Coal ✓

No. and Description of Boilers

Two Single-Ended. 2 SB ✓

Working Pressure

200 lbs ✓

Tested by hydraulic pressure to

350 lbs

Date of test

9/9/27 ✓

No. of Certificate

202

Can each boiler be worked separately

yes ✓

Area of Firegrate in each Boiler

57.6 sq. ft.

No. and Description of safety valves to each boiler

pair Spring loaded ✓

Area of each set of valves per boiler

(per Rule

13.290"

as fitted

14.130"

Pressure to which they are adjusted

200 lbs

Are they fitted with easing gear

yes ✓

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

1'-6" ✓

Is oil fuel carried in the double bottom under boilers

no ✓

Smallest distance between shell of boiler and tank top plating

2'-3" ✓

Is the bottom of the boiler insulated

no ✓

Largest internal dia. of boilers

14'-10 1/4" ✓

Length

11'-9" ✓

Shell plates: Material

Steel ✓

Tensile strength

28/32 Tons

Thickness

1 3/8" ✓

Are the shell plates welded or flanged

no ✓

Description of riveting: circ. seams

(end

double-riveted.

long. seams

T.R. D.B.S. ✓

Diameter of rivet holes in

(circ. seams

1 3/8" ✓

(long. seams

Pitch of rivets

4" ✓

Percentage of strength of circ. end seams

(plate

65.6

rivets

44.4

Percentage of strength of circ. intermediate seam

(plate

—

rivets

—

Percentage of strength of longitudinal joint

(plate

85.2

rivets

89

combined

88.25

Working pressure of shell by Rules

204 lbs

Thickness of butt straps

(outer

1 1/16" ✓

(inner

1 3/16" ✓

No. and Description of Furnaces in each Boiler

Three Deighton Corrugated

Material

Steel ✓

Tensile strength

26/30 Tons ✓

Smallest outside diameter

3'-7 1/16" ✓

Length of plain part

(top

—

(bottom

—

Thickness of plates

(crown

19" ✓

(bottom

32" ✓

Description of longitudinal joint

weld ✓

Dimensions of stiffening rings on furnace or c.c. bottom

none fitted ✓

Working pressure of furnace by Rules

200 lbs

End plates in steam space: Material

Steel ✓

Tensile strength

26/30 Tons ✓

Thickness

1 5/16" ✓

Pitch of stays

22 1/2" x 19 1/2" ✓

How are stays secured

Double nuts & Loose Washers 12 1/4" x 15" ✓

Working pressure by Rules

204 lbs

Tube plates: Material

(front

Steel ✓

(back

Steel ✓

Tensile strength

26/30 Tons ✓

26/30 Tons

Thickness

7/8" & 3/4" Doubling Plate. ✓

13/16" ✓

Mean pitch of stay tubes in nests

10 5/8" ✓

Pitch across wide water spaces

14" ✓

Working pressure

(front 202 lbs

(back 210 lbs.

Girders to combustion chamber tops: Material

Steel ✓

Tensile strength

28/32 Tons

Depth and thickness of girder

at centre

8 1/2" x 13 3/4" ✓

Length as per Rule

3 1/2" ✓

Distance apart

10 1/2" ✓

No. and pitch of stays

in each

two - 9 1/4" ✓

Working pressure by Rules

204 lbs

Combustion chamber plates: Material

Steel ✓

Tensile strength

26/30 Tons

Thickness: Sides

3/4" ✓

Back

3/4" ✓

Top

3/4" ✓

Bottom

7/8" ✓

Pitch of stays to ditto: Sides

10" x 9 1/4" ✓

Back

9 3/4" x 9 1/2" ✓

Top

10 1/2" x 9 1/4" ✓

Are stays fitted with nuts or riveted over

nuts ✓

Working pressure by Rules

202 lbs.

Front plate at bottom: Material

Steel ✓

Tensile strength

26/30 Tons ✓

Thickness

7/8" ✓

Lower back plate: Material

Steel ✓

Tensile strength

26/30 Tons

Thickness

27/32" ✓

Pitch of stays at wide water space

14" x 9 1/2" ✓

Are stays fitted with nuts or riveted over

nuts ✓

Working Pressure

203 lbs

Main stays: Material

Steel ✓

Tensile strength

28/32 Tons ✓

Diameter

(At body of stay,

or

Over threads

3 1/2" ✓

No. of threads per inch

six

Area supported by each stay

438.750" ✓

Working pressure by Rules

216 lbs

Screw stays: Material

Iron ✓

Tensile strength

21 1/2 Tons

Diameter

(At turned off part,

or

Over threads

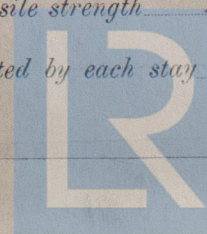
1 7/8" ✓

No. of threads per inch

nine

Area supported by each stay

97.1250" ✓

Lloyd's Register
Foundation

