

REPORT ON BOILERS.

No. 90551.

Received at London Office

25 AUG 1926

Date of writing Report

192

When handed in at Local Office

12/8/26

Port of

Liverpool

No. in
Reg. Book.

Survey held at

GLASSON DOCK.

Date, First Survey

JUNE 17th

Last Survey

JULY 9th

1926

on the

S.S. "CREEK FISHER"

(Number of Visits

6

Tons

Gross

129

Net

329

Master

Built at

LEKKERKERK.

By whom built

J. VAN, DUITVENDIJK.

Yard No.

When built

1918

Engines made at

BOLNES.

By whom made

BOELE'S, SCHIPS & MECH

Engine No.

When made

1918.

Boilers made at

- DITTO -

By whom made

DITTO.

Boiler No.

When made

1918

Nominal Horse Power

Owners

J. FISHER & SON.

Port belonging to

LANCASTER

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

(Letter for Record

S.

Total Heating Surface of Boilers

2087 sq feet.

Is forced draught fitted

No

Coal or Oil fired

COAL.

No. and Description of Boilers

TWO CYLINDRICAL MULTITUBULAR.

Working Pressure

185 LBS.

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

YES

Area of Firegrate in each Boiler

35 sq ft.

No. and Description of safety valves to each boiler

TWO, SPRING LOADED

Area of each set of valves per boiler

per Rule 6.525 sq ins.

Pressure to which they are adjusted

185 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

6 FEET.

Is oil fuel carried in the double bottom under boilers

No.

Smallest distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

No.

Largest internal dia. of boilers

9'-10"

Length

10'-6"

Shell plates: Material

STEEL

Tensile strength

Thickness

63/64

Are the shell plates welded or flanged

No.

Description of riveting: circ. seams

DOUBLE

long. seams

TREBLE.

Diameter of rivet holes in

circ. seams

1 1/4"

Pitch of rivets

3 3/4"

Percentage of strength of circ. end seams

plate 66.67.

rivets 65.18

plate 85.15

rivets 91.83

combined 67.02.

Percentage of strength of circ. intermediate seam

plate

rivets

Percentage of strength of longitudinal joint

plate

rivets

combined

Working pressure of shell by Rules

174.6 LBS/sq. inch.

Thickness of butt straps

outer 45/64

inner 53/64

No. and Description of Furnaces in each Boiler

TWO, CORRUGATED.

Material

STEEL

Tensile strength

Smallest outside diameter

34 1/4"

Length of plain part

top

bottom

Thickness of plates

circ. seams

bottom

Description of longitudinal joint

WELDED

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

Working pressure of furnace by Rules

215.7 LBS.

End plates in steam space: Material

STEEL

Tensile strength

Thickness

53/64

Pitch of stays 13" x 14 1/8"

How are stays secured

NUTS AND RIVETED WASHERS OUTSIDE.

Working pressure by Rules

199.2 LBS.

Tube plates: Material

front STEEL.

back

Tensile strength

Thickness

53/64

Mean pitch of stay tubes in nests

10 1/2"

Pitch across wide water spaces

14 1/8"

Working pressure

front 223 LBS

back 185.8 LBS

Girders to combustion chamber tops: Material

STEEL

Tensile strength

Depth and thickness of girder

at centre

6 9/8" x 5/8" x 2

Length as per Rule

22 1/4"

Distance apart

7.087"

in each

Two At 7.087"

Working pressure by Rules

295.6 LBS.

Combustion chamber plates: Material

STEEL.

Tensile strength

Thickness: Sides

19/32"

Back

19/32"

Top

19/32"

Bottom

23/32"

Pitch of stays to ditto: Sides

6 6/8" x 7.087"

Back

7.285" x 7.874"

Top

7.087" x 7.087"

Are stays fitted with nuts or riveted over

NUTS INSIDE C.C.

RIVETED OUTSIDE.

Working pressure by Rules

256 LBS.

Front plate at bottom: Material

STEEL

Tensile strength

Thickness

53/64

Lower back plate: Material

STEEL

Tensile strength

Thickness

53/64

Pitch of stays at wide water space

12 6/8" x 7.874"

Are stays fitted with nuts or riveted over

NUTS.

Working Pressure

349 LBS.

Main stays: Material

STEEL

Tensile strength

Diameter

At body of stay,

2 1/4"

No. of threads per inch

10

Area supported by each stay

18 1/4 sq ins.

Working pressure by Rules

233.9 LBS.

Screw stays: Material

STEEL

Tensile strength

Diameter

At turned off part,

1 1/2"

No. of threads per inch

9

Area supported by each stay

57.34 sq ins.

Working pressure by Rules $250 \frac{1}{2}$ lbs. Are the stays drilled at the outer ends No. Margin stays: Diameter $\frac{13}{4}$ " ☒ At turned off part. ☒ Over threads.

No. of threads per inch 9 Area supported by each stay 78.29 sq. in. Working pressure by Rules 267 lbs.

Tubes: Material External diameter 3 " ☒ Plain ☒ Stay Thickness $\frac{10}{16}$ " $\frac{5}{16}$ " No. of threads per inch 10.

Pitch of tubes $3 \frac{15}{16} \times 3 \frac{15}{16}$ Working pressure by Rules 140 lbs. Manhole compensation: Size of opening in shell plate $20 \frac{1}{2} \times 16 \frac{1}{2}$ Section of compensating ring $5 \frac{3}{4} \times 1$ No. of rivets and diameter of rivet holes 40 - $1 \frac{1}{16}$ " DIA.

Outer row rivet pitch at ends $4 \frac{5}{8}$ " Depth of flange if manhole flanged $3 \frac{3}{4}$ " Steam Dome: Material

Tensile strength Thickness of shell Description of longitudinal joint

Diameter of rivet holes Pitch of rivets Percentage of strength of joint ☒ Plate ☒ Rivets

Internal diameter Working pressure by Rules Thickness of crown No. and diameter of stays

How connected to shell Inner radius of crown Working pressure by Rules

Size of doubling plate under dome Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell

Type of Superheater Manufacturers of Tubes ☒ Steel castings

Number of elements Material of tubes Internal diameter and thickness of tubes

Material of headers Tensile strength Thickness Can the superheater be shut off and the boiler be worked separately

Is a safety valve fitted to every part of the superheater which can be shut off from the boiler

Area of each safety valve Are the safety valves fitted with easing gear Working pressure as per Rules

Pressure to which the safety valves are adjusted Hydraulic test pressure: tubes castings and after assembly in place Are drain cocks or valves fitted to free the superheater from water where necessary

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with

The foregoing is a correct description,

Manufacturer.

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

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

Total No. of visits

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

These Boilers have not been built under Special Survey but have now been opened out specially examined internally and externally with their mountings and safety valves.

The workmanship and materials appear to be of a good quality and when examined under steam the Boilers were found tight and satisfactory in every respect.

The safety valves have been adjusted to 185 lbs per sq. inch and an accumulation test held was quite satisfactory.

See Surveyor's letter E 14/6/26.

Survey Fee ... £ : : When applied for, 192

Travelling Expenses (if any) £ : : When received, 192

J. H. Leicester.
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

LIVERPOOL 13 AUG. 1926

FRI. 3 SEP 1926

FRI. 10 SEP 1926

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Assigned

See attached reports.