

REPORT ON WATER TUBE BOILERS.

No. 49892

Received at London Office

-7 DEC 1929

Date of writing Report

191

When handed in at Local Office

26.11.1929

Port of

Glasgow

No. in

Survey held at

Grangemouth

Date, First Survey

20.3.29

Last Survey

22.11.1929

Reg. Bk.

on the

Twin Is. Steamer Islander

Number of Visits

22

Gross

1619

Tons

Net

744

Master

Built at

Grangemouth

By whom built

Grangemouth Dryd Co

When built

1929

Engines made at

Newbury

By whom made

Plenty & Son Ltd

When made

1929

Boilers made at

Renfrew

By whom made

Babcock & Wilcox Ltd

When made

1929

Registered Horse Power

Owners

Christmas Island Phosphate Co Ltd

Port belonging to

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel

Letter for Record

Date of Approval of plan

Number and Description or Type

of Boilers 2. Babcock & Wilcox type

Working Pressure

190 lb

Tested by Hydraulic Pressure to

400 lb

Date of Test

2/9/29

No. of Certificate

Can each boiler be worked separately

yes

Total Heating Surface of Boilers

Is forced draught fitted

yes

Area of fire grate (coal) in each Boiler

Total grate area of boilers in vessel including

Main and Auxiliary

No. and type of burners (oil) in each boiler

2. Clyde oil fuel

No. and description of safety valves on

each boiler

1-2 1/2" Lyle Spring High Lift

Area of each valve

3.985

Pressure to which they are adjusted

190 lb

Are they fitted with easing gear

yes

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

yes

Smallest distance between boilers or uptakes and bunkers

on wooden work

Height of Boiler

Width and Length

Steam Drums:—Number in each boiler

Inside diameter

Material of plates

Thickness

Range of Tensile Strength

Are drum shell plates welded or flanged

Description of riveting:—

Cir. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of Rivets

Lap of plate or width of butt straps

Thickness of straps

Percentage strength of long. joint:—Plate

Rivet

Diameter of tube holes in drum

Pitch of tube holes

Percentage strength of shell in way of tubes

If Drum has a flat side state method of staying

Depth and thickness of girders at centre

if fitted)

Distance apart

Number and pitch of stays in each

Working pressure

by rules

Steam Drum Heads or Ends:—Material

Thickness

Radius or how stayed

Size of Manhole or Handhole

Water Drums:—Number in each boiler

Inside Diameter

Material of plates

Thickness

Range of tensile strength

Are drum shell plates welded

or flanged

Description of riveting:—Cir. seams

long. seams

Diameter of Rivet Holes in

long. seams

Pitch of rivets

Lap of plates or width of butt straps

Thickness of straps

Percentage strength of long. joint:—Plate

Rivet

Diameter of tube holes in drum

Pitch of tube holes

Percentage strength of drum shell in way of tubes

Water Drum Heads or Ends:—Material

Thickness

Radius or how stayed

Size of manhole or handhole

Headers or Sections:—Number

Material

Thickness

Tested by Hydraulic Pressure to

Material of Stays

Area at smallest part

Area supported by each stay

Working Pressure by Rules

Tubes:—Diameter

Thickness

Number

Steam Dome or Collector:—Description of Joint to Shell

Percentage strength of Joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diameter of Rivet Holes

Pitch of Rivets

Working Pressure of shell

by Rules

Crown or End Plates:—Material

Thickness

How stayed

SUPERHEATER.

Type

yes

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler

Diameter of Safety Valve

Pressure to which each is adjusted

Is easing gear fitted

Is a drain cock or valve fitted at lowest point of superheater

Number, diameter, and thickness of tubes

Compare Gear.

Tubes

Gaskets or joints:—Manhole

Handhole

Handhole plates

The foregoing is a correct description,

Manufacturer.

Dates
Survey
while
building

During progress of
work in shops - -
During erection on
board vessel - - -

See Accompanying Machinery Report

Is the approved plan of boiler forwarded herewith

yes

Total No. of visits

22

Gls Rpt 49562.

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

These boilers have been properly assembled and secured in the vessel,
tested by hydraulic pressure to 400 lb and found satisfactory.

The safety valves have been adjusted to 190 lb, and the thicknesses of

Asken Port Bl: $\frac{1}{32}$ " - $\frac{1}{32}$ " - Std Bl $\frac{1}{16}$ " $\frac{3}{8}$ "

Survey Fee ... £

When applied for,

191

Travelling Expenses (if any) £

When received,

191

H. L. Sutherst.

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

Signed

See Gls Rpt 49562 attached

TUE 10 DEC 1929

007876-60882-061

Lloyd's Register
Foundation