

5a.

# REPORT ON BOILERS.

No. 47865

Received at London Office

2 MAY 1928

Writing Report

apl 25 8

192

When handed in at Local Office

28 4

1928

Port of

Glasgow

Survey held at

Grangemouth

Date, First Survey

16 9 27

Last Survey

apl 20 8

1928

(Number of Visits 44)

Gross 739

Tons Net 381

on the

S.S. MIRANI

Built at Grangemouth

By whom built

Gmh Dryd Co Ltd

Yard No.

415

When built

1928

made at

Glasgow

By whom made

McKie & Baxter

Engine No.

1209

When made

1928

made at

Hebburn

By whom made

Palmer's S & J. Co Ltd

Boiler No.

1087

When made

1928

l Horse Power

100

Owners

Burns Philps & Co

Port belonging to

London

## TITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

(Letter for Record)

Heating Surface of Boilers

Is forced draught fitted

Coal or Oil fired

Description of Boilers

Working Pressure

by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Firegrate in each Boiler

No. and Description of safety valves to each boiler

2 S. L. ✓

of each set of valves per boiler

per Rule

11.6 9"

Pressure to which they are adjusted

200 lb

Are they fitted with easing gear

yes ✓

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

no

st distance between boilers or uptakes and bunkers or woodwork

6 1/2"

Is oil fuel carried in the double bottom under boilers

no

st distance between shell of boiler and tank top plating

15"

Is the bottom of the boiler insulated

yes

t internal dia. of boilers

Length

Shell plates

Material

Tensile strength

ess

Are the shell plates welded or flanged

Description of riveting: circ. seams

end

rams

Diameter of rivet holes in

circ. seams

long. seams

Pitch of rivets

age of strength of circ. end seams

plate

rivets

Percentage of strength of circ. intermediate seam

plate

rivets

age of strength of longitudinal joint

plate

rivets

combined

Working pressure of shell by Rules

ess of butt straps

outer

inner

No. and Description of Furnaces in each Boiler

al

Tensile strength

Smallest outside diameter

of plain part

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint

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

Working pressure of furnace by Rules

plates in steam space: Material

Tensile strength

Thickness

Pitch of stays

ure stays secured

Working pressure by Rules

plates: Material

front

back

Tensile strength

Thickness

pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure

front

back

rs to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder

tre

Length as per Rule

Distance apart

No. and pitch of stays

h

Working pressure by Rules

Combustion chamber plates: Material

e strength

Thickness: Sides

Back

Top

Bottom

of stays to ditto: Sides

Back

Top

Are stays fitted with nuts or riveted over

ing pressure by Rules

Front plate at bottom: Material

Tensile strength

ness

Lower back plate: Material

Tensile strength

Thickness

of stays at wide water space

Are stays fitted with nuts or riveted over

ing Pressure

Main stays: Material

Tensile strength

ter

At body of stay,

or

Over threads

No. of threads per inch

Area supported by each stay

ing pressure by Rules

Screw stays: Material

Tensile strength

ter

At turned off part,

or

Over threads

No. of threads per inch

Area supported by each stay

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Working pressure by Rules Are the stays drilled at the outer ends Margin stays: Diameter { At turned off part, or Over threads

No. of threads per inch Area supported by each stay Working pressure by Rules

Tubes: Material External diameter { Plain Stay Thickness { No. of threads per inch

Pitch of tubes Working pressure by Rules Manhole compensation: Size of opening

shell plate Section of compensating ring No. of rivets and diameter of rivet holes

Outer row rivet pitch at ends Depth of flange if manhole flanged 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

Inner radius of crown Working pressure by Rules

How connected to shell Size of doubling plate under dome Diameter of rivet holes and 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 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

Rules Pressure to which the safety valves are adjusted Hydraulic test pressure

tubes, castings and after assembly in place Are drain cocks or valves 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,

Dates of Survey { During progress of work in shops - - - } All accompanying machinery report. Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

while building { During erection on board vessel - - - } Total No. of visits 44

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

This boiler has been fitted in the above vessel.

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

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

H. L. Sutherland

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute GLASGOW 1-MAY 1928

Assigned See accompanying Mach. Report.



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