

REPORT ON BOILERS.

No. 46649

Date of writing Report

9th May 1927

When handed in at Local Office

12. 5. 1927

Received at London Office

18 MAY 1927

No. in
Reg. Book.

Survey held at

Glasgow

Date, First Survey

12. 10. 26

Last Survey

7. 5. 1927

on the

Screw Tug. 'SWAN'

(Number of Visits 45)

Gross
Tons
Net

Master

Built at

Glasgow

By whom built

G. Brown & Co

Yard No. 157

When built 1917.5

Engines made at

Glasgow

By whom made

McKie & Baxter Ltd.

Engine No. 1185

When made 1927

Boilers made at

Carlisle

By whom made

A. Anderson & Sons Ltd.

Boiler No. 2872

When made 1927

Nominal Horse Power

13

Owners

Not known

(H.P. 46570)

Port belonging to

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Total Heating Surface of Boilers

(Letter for Record)

Is forced draught fitted

Coal or Oil fired Oil

No. and Description of Boilers

Working Pressure 120 lb

Tested by hydraulic pressure to

Date of test

No. of Certificate 7352

Can each boiler be worked separately

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

Area of each set of valves per boiler

per Rule 3.1280

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

Is oil fuel carried in the double bottom under boilers

Smallest distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

Largest internal dia. of boilers

Length

Shell plates: Material

Tensile strength

Thickness

Are the shell plates welded or flanged

Description of riveting: circ. seams {end
inter.

long. seams

Diameter of rivet holes in {circ. seams
long. seams

Pitch of rivets {

Percentage of strength of circ. end seams {plate
rivetsPercentage of strength of circ. intermediate seam {plate
rivetsPercentage of strength of longitudinal joint {plate
rivets

Working pressure of shell by Rules

Thickness of butt straps {outer
inner

No. and Description of Furnaces in each Boiler

Material

Tensile strength

Smallest outside diameter

Length of plain part {top
bottomThickness of plates {crown
bottom

Description of longitudinal joint

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

Working pressure of furnace by Rules

End plates in steam space: Material

Tensile strength

Thickness

Pitch of stays

How are stays secured

Working pressure by Rules

Tube plates: Material {front
back

Tensile strength {

Thickness {

Mean pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure {front
back

Girders to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder

at centre

Length as per Rule

Distance apart

No. and pitch of stays

on each

Working pressure by Rules

Combustion chamber plates: Material

Tensile strength

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

Are stays fitted with nuts or riveted over

Working pressure by Rules

Front plate at bottom: Material

Tensile strength

Thickness

Lower back plate: Material

Tensile strength

Thickness

Pitch of stays at wide water space

Are stays fitted with nuts or riveted over

Working Pressure

Main stays: Material

Tensile strength

Diameter {At body of stay,
or
Over threads

No. of threads per inch

Area supported by each stay

Working pressure by Rules

Screw stays: Material

Tensile strength

Diameter {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 in
 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 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 - - - } See Accompanying Machinery Report Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
 { During erection on board vessel - - - } Total No. of visits 45

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has now been fitted on board the above vessel.

Survey Fee ... £ : : When applied for, 192
 Travelling Expenses (if any) £ : : When received, 192

W. Lane

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 17 MAY 1927

Assigned See accompanying Mach. Report.



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