

REPORT ON BOILERS.

No. 52030

Received at London Office

6 JAN 1932

of writing Report

19

When handed in at Local Office

4 - 1 - 1932

Port of GLASGOW.

Survey held at

TROON.

Date, First Survey

14. 5. 31

Last Survey

2 - 1 - 1932

Book.

(Number of Visits 32)

Gross 824

Tons { Net 405

on the

S.S. "THE SULTAN"

ter

Built at

By whom built

Yard No. 418 When built 1932

ines made at

TROON.

By whom made

Aulsebrook S.B. Co Ltd.

Engine No. 153. When made 1932.

ers made at

GLASGOW.

By whom made

David Rowan & Co. Ltd.

Boiler No. 385. When made 1931.

inal Horse Power

115

Owners

J. Hay & Sons Ltd.

Port belonging to GLASGOW.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

(Letter for Record S)

al Heating Surface of Boilers

2021 ft

Is forced draught fitted

ho

Coal or Oil fired Coal.

and Description of Boilers

One single-ended Marine

Working Pressure 200.

sted by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

ea of Firegrate in each Boiler

54 1/2 ft

No. and Description of safety valves to each boiler

one pair spring loaded.

ea of each set of valves per boiler

{ per Rule 11.77 sq in
as fitted 11.88 sq in

Pressure to which they are adjusted

200

Are they fitted with easing gear

yes.

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

✓

allest distance between boilers or uptakes and bunkers

6'-10"

Is oil fuel carried in the double bottom under boilers

✓

allest distance between shell of boiler and tank top plating

open floor.

Is the bottom of the boiler insulated

ho.

rgest internal dia. of boilers

Length

Shell plates: Material

Tensile strength

ickness

Are the shell plates welded or flanged

Description of riveting: circ. seams { end
inter.

g. seams

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

Pitch of rivets {

ercentage of strength of circ. end seams { plate
rivetsPercentage of strength of circ. intermediate seam { plate
rivetsercentage of strength of longitudinal joint { plate
rivets
combined

Working pressure of shell by Rules

ickness of butt straps { outer
inner

No. and Description of Furnaces in each Boiler

aterial

Tensile strength

Smallest outside diameter

ength 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

nd plates in steam space: Material

Tensile strength

Thickness

Pitch of stays

ow are stays secured

Working pressure by Rules

abe plates: Material { front
back

Tensile strength {

Thickness {

ean pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure { front
back

rders to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder

centre

Length as per Rule

Distance apart

No. and pitch of stays

each

Working pressure by Rules

Combustion chamber plates: Material

ensile strength

Thickness: Sides

Back

Top

Bottom

itch 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

ickness

Lower back plate: Material

Tensile strength

Thickness

itch of stays at wide water space

Are stays fitted with nuts or riveted over

Working Pressure

Main stays: Material

Tensile strength

iameter { 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

iameter { At turned off part,
or
Over threads

No. of threads per inch

Area supported by each stay

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Foundation

W1142-0029p

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
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 as
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 22 inclusive for boilers been complied with

The foregoing is a correct description,
Manufacture

Dates of Survey { During progress of work in shops - - }
while building { During erection on board vessel - - - }
SEE ACCOMPANYING MACHINERY REPORT.
Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
Total No. of visits 32

Is this Boiler a duplicate of a previous case If so, state Vessel's name and Report No.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been securely fitted on board the vessel, safety valves adjusted under steam and tried under working conditions with satisfactory results.

A.L.
4/1/32.

SEE GLASGOW REPORT No. 21819

Survey Fee ... £ : ✓ : When applied for, 19
Travelling Expenses (if any) £ : : When received, 19

J. Y. Barr.
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute GLASGOW 5-JAN 1932
Assigned SEE ACCOMPANYING MACHINERY REPORT.