

REPORT ON BOILERS.

No. 52030

6 JAN 1932

Received at London Office

of writing Report

19

When handed in at Local Office

4-1-1932

Port of GLASGOW.

in Survey held at

TROON.

Date, First Survey

14-5-31

Last Survey

2-1-1932

on the

S.S. "THE SULTAN"

(Number of Visits 32)

Gross 824
Tons Net 405

Built at

By whom built

Yard No. 418

When built 1932

Lines made at

TROON.

By whom made

Aulsebrook & Co Ltd.

Engine No. 153

When made 1932.

Boilers made at

GLASGOW.

By whom made

David Rowan & Co Ltd.

Boiler No. 385

When made 1931.

Indicated 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)

Total Heating Surface of Boilers

2021 sq ft

Is forced draught fitted

no

Coal or Oil fired Coal.

Name and Description of Boilers

One single-ended Marine

Working Pressure 200.

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Area of Firegrate in each Boiler

54 1/2 sq ft

No. and Description of safety valves to each boiler

one pair spring loaded.

Pressure 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.

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

✓

Smallest distance between boilers or uptakes and bunkers

6'-10"

Is oil fuel carried in the double bottom under boilers

✓

Smallest distance between shell of boiler and tank top plating

open floor.

Is the bottom of the boiler insulated

no.

Largest internal dia. of boilers

Length

Shell plates: Material

Tensile strength

Thickness

Are the shell plates welded or flanged

Description of riveting: circ. seams

inter.

Pitch of seams

Diameter of rivet holes in

circ. seams
long. seams

Pitch of rivets

Percentage of strength of circ. end seams

plate
rivets

Percentage of strength of circ. intermediate seam

plate
rivets

Percentage of strength of longitudinal joint

plate
rivets
combined

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
bottom

Thickness of plates

crow
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

End plates: Material

front
back

Tensile strength

Thickness

Can pitch of stay tubes in nests

pitch across wide water spaces

Working pressure

front
back

Orders 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

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

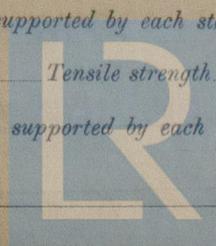
Diameter

At turned off part,
or
Over threads

No. of threads per inch

Area supported by each stay

SEE GLASGOW REPORT No. 51816



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W1142-00299

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 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 fitted 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,

Manufactured by _____

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

SEE ACCOMPANYING MACHINERY REPORT. (If not state date of approval.)

Are the approved plans of boiler and superheater forwarded herewith _____

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.

