

## REPORT ON BOILERS.

No. 18650

Date of writing Report 4 - 1 - 1927

When handed in at Local Office 29 - 1 - 1927

Received at London Office

9 FEB 1927

No. in Survey held at  
Reg. Book.

on the

Date, First Survey 5th May, 1925.

Last Survey 29th January 1927.

(Number of Visits 181.)

Gross

Tons Net

Master

Built at

By whom built

When built 1927

Engines made at

By whom made

When made 1927

Boilers made at

By whom made

When made 1927

Registered Horse Power

Owners

Port belonging to London.

## MULTITUBULAR BOILERS—MAIN,

Manufacturers of Steel Steel Co of Scotland Glasgow

(Letter for record

Total Heating Surface of Boilers

Is forced draft fitted

No. and Description of

Boilers 3 Single Ended

Working Pressure 180

Tested by hydraulic pressure to 320

Date of test 14. 12. 26

No. of Certificate 136

Can each boiler be worked separately

Area of fire grate in each boiler 59.5

No. and Description of

safety valves to each boiler

Area of each valve 11.04

Pressure to which they are adjusted 185

Are they fitted with easing gear

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 14"

Mean dia. of boilers 15.0"

Length 11.6"

Material of shell plates

Thickness 17/32"

Range of tensile strength 28/32

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

long. seams

TR. DBS

Diameter of rivet holes in long. seams 1 1/4"

Pitch of rivets 8 15/16"

width of butt straps 1.65/8"

Per centages of strength of longitudinal joint

rivets 86.7%

Working pressure of shell by

rules 181.

Size of manhole in shell 16.12"

Size of compensating ring 2.5.2.10.17/32"

No. and Description of Furnaces in each

boiler 3 Corrugated

Material

Outside diameter 3.11 1/4"

Length of plain part top

Thickness of plates

crown 9 1/16"

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules 184

Combustion chamber

plates: Material

Thickness: Sides 2 1/32"

Back 2 1/32"

Top 2 1/32"

Bottom 3/4"

Pitch of stays to ditto: Sides 8 7/8"

Back 9 1/4"

Top If stays are fitted with nuts or riveted heads

Working pressure by rules 181.

Material of stays

Area at

smallest part

Area supported by each stay 83"

Working pressure by rules 186

End plates in steam space: Material

Thickness 19/32"

Pitch of stays 19.21"

How are stays secured

Working pressure by rules 181.

Material of stays

Area at smallest part 6.66"

Area supported by each stay 399"

Working pressure by rules 184

Material of Front plates at bottom

Thickness 27/32"

Material of

Lower back plate

Thickness 13/16"

Greatest pitch of stays 13 1/4"

Working pressure of plate by rules 186

Diameter of tubes 2 3/4"

Pitch of tubes 4.37/8"

Material of tube plates

Thickness: Front 27/32"

Back 3/4"

Mean pitch of stays 9.8"

Pitch across wide

water spaces 13 1/2"

Working pressures by rules 184

Girders to Chamber tops: Material

Depth and thickness of

girder at centre 9 1/4 + 3/4 (2)

Length as per rule 24. 19/32"

Distance apart 9 1/4"

Number and pitch of Stays in each 3 at 8 7/8"

Working pressure by rules 183

Steam dome: description of joint to shell

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER. Type

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

The foregoing is a correct description,  
RANKIN & BLACKMORE, LTD.,

Director, Manufacturer.

Dates of Survey

During progress of

work in shops - -

while

During erection on

building

board vessel - -

See Machinery Report.

Is the approved plan of boiler forwarded herewith

Total No. of visits

## GENERAL REMARKS

(State quality of workmanship, opinions as to class, &amp;c.)

These Boilers have been built under Special Survey in accordance with the approved plan. The workmanship & material are of good quality, they have now been securely fitted on board.

Survey Fee

When applied for, 19

Expenses (if any) £

When received, 19

Committee's Minute GLASGOW 8 - FEB 1927

Assigned See attached report

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

W1152-0033