

## REPORT ON BOILERS.

No. 34654

WED. 10. APR. 1918

Received at London Office

of writing Report

191

When handed in at Local Office

191

Port of Glasgow

Survey held at

Glasgow

Date, First Survey

10<sup>th</sup> Jan 1913

Last Survey

25<sup>th</sup> March 1918

Book.

(Number of Visits 108)

on the

S.S. "Malancha"

Gross  
Tons  
Net

ter

Built at Port Glasgow

By whom built

Rumell &amp; Co (709)

When built 1918

ines made at

Glasgow

By whom made

D Rowan &amp; Co Ltd (682 ex 597)

When made 1918

ers made at

Glasgow

By whom made

D Rowan &amp; Co Ltd (682 ex 597)

When made 1918

istered Horse Power

Owners

Port belonging to

## MULTITUBULAR BOILERS — MAIN, AUXILIARY OR DONKEY —

Manufacturers of Steel

D Colville &amp; Son

atter for record

(5) Total Heating Surface of Boilers

2775<sup>sq</sup> ft

Is forced draft fitted

Yes

No. and Description of

Boilers 1 single ended

Working Pressure 220

Tested by hydraulic pressure to 440

Date of test 6/1/14

of Certificate 12791

Can each boiler be worked separately

Area of fire grate in each boiler

62<sup>sq</sup> ft

No. and Description of

valves to each boiler

1 pair direct spring

Area of each valve

11.04<sup>sq</sup> in

Pressure to which they are adjusted

225 lbs

they fitted with easing gear

Yes

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

least distance between boilers or uptakes and bunkers or woodwork

about 2' 3"

Mean dia. of boilers

15-6

Length

12-0

Material of shell plates

Steel

Thickness

1/2"

Range of tensile strength

28 to 32

Are the shell plates welded or flanged

Yes

Description of riveting: cir. seams

lap 81.4

long. seams

double butt

Diameter of rivet holes in long. seams

1 1/16"

Pitch of rivets

10 1/2"

of plates or width of butt straps

23"

Per centages of strength of longitudinal joint

rivets 94

plate 84.6

Working pressure of shell by

s 220

Size of manhole in shell

16" x 13"

Size of compensating ring

33" x 37" x 1 1/2"

No. and Description of Furnaces in each

Boilers 3 Deighton

Material

Steel

Outside diameter

49 1/2"

Length of plain part

top

bottom

Thickness of plates

crown 4 1/2"

bottom 6 1/4"

Description of longitudinal joint

welded

No. of strengthening rings

Working pressure of furnace by the rules

222

Combustion chamber

Material

Steel

Thickness: Sides

25

Back

25

Top

25

Bottom

15

Pitch of stays to ditto: Sides

9" x 10 1/2"

Back

8 3/4" x 10 3/4"

10 1/2" x 9" If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules 220

Material of stays

Steel

Diameter at

smallest part

2 1/2"

Area supported by each stay

94.5

Working pressure by rules 225

End plates in steam space: Material

Steel

Thickness

15

Diameter at smallest part

9 1/2"

How are stays secured

nuts

Working pressure by rules 220

Material of stays

Steel

Diameter at smallest part

9 1/2"

Area supported by each stay

435

Working pressure by rules 223

Material of Front plates at bottom

Steel

Thickness

15

Material of

Front plates at bottom

Steel

Thickness

15

Greatest pitch of stays

13 3/16"

Working pressure of plate by rules 226

Diameter of tubes

3"

Material of tube plates

Steel

Thickness: Front

15

Back

27

Mean pitch of stays

10 1/2"

Pitch across wide

spaces

13 3/16"

Working pressures by rules

220

Girders to Chamber tops: Material

Steel

Depth and thickness of

Girders to Chamber tops

Material

Steel

Depth and thickness of

Length as per rule

37 3/8"

Distance apart

10 1/2"

Number and pitch of Stays in each

(3) 9"

Superheater or Steam chest: how connected to boiler

None

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

The foregoing is a correct description,

David Rowan &amp; Co Ltd

Manufacturer.

Is the approved plan of boiler forwarded herewith

Yes

Total No. of visits

During progress of

work in shops - -

During erection on

board vessel - -

See accompanying Report

Machinery

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

This boiler has been built

under special survey, the materials &amp; workmanship are of good

description, it has been well fitted on board &amp; tried under steam

Survey Fee

£

When applied for,

191

Travelling Expenses (if any) £

£

When received,

191

Committee's Minute

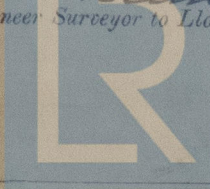
GLASGOW.

9 APR 1918

Assigned

See accompanying machinery

report.

A. McKeand & W. H. Colman  
Engineer Surveyor to Lloyd's Register of Shipping.Lloyd's Register  
Foundation

W 600-0087