

pt. 5a.

REPORT ON BOILERS.

No. 41698

Date of writing Report 10. 2. 1922

1922

When handed in at Local Office

10. 2. 1922

Received at London Office

No. in Survey held at Dumbarton

Port of Glasgow

WED 15 FEB 1922

Reg. Book.

Date, First Survey 4. 11. 1919

Last Survey 1. 2. 1922

on the

S.S. "Chilka"

(Number of Visits 50)

Gross 4360

Net 2209

Faster

Built at Dumbarton

By whom built Wm Denny & Bros. (1841)

When built

Engines made at Dumbarton

By whom made Wm Denny & Bros. (1885)

When made 1922

Boilers made at Dumbarton

By whom made Wm Denny & Bros. (1885)

When made 1922

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS — MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel Wm Beardmore & Co. Ltd.

Letter for record

Total Heating Surface of Boilers 1254

Is forced draft fitted

No. and Description of

Boilers 1 Single ended

Working Pressure 215

Tested by hydraulic pressure to 377

Date of test 15. 4. 21

No. of Certificate 15791

Can each boiler be worked separately

Area of fire grate in each boiler 39.87

No. and Description of

Safety valves to each boiler 1 pair direct Spring

Area of each valve 4.19

Pressure to which they are adjusted 220

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 2'-0"

inside

Mean dia. of boilers 12'-0"

Length 10'-0"

Material of shell plates steel

Thickness 3/16"

Range of tensile strength 28.5-32.5

Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams double lap

long. seams triple butt

Diameter of rivet holes in long. seams 1/32"

Pitch of rivets 8 3/4"

Pitch of plates or width of butt straps 8 5/16"

Per centages of strength of longitudinal joint

rivets 83.4

Working pressure of shell by

Size of manhole in shell 17" x 13"

Size of compensating ring 34" x 34" x 1/16"

No. and Description of Furnaces in each

Boiler 2 Monsoon

Material steel

Outside diameter 46 1/4"

Length of plain part

Thickness of plates

crown 21

bottom 32

Description of longitudinal joint weld

No. of strengthening rings

Working pressure of furnace by the rules 230

Combustion chamber

Material steel

Thickness: Sides 3/8"

Back 5/8"

Top 3/8"

Bottom 3/8"

Pitch of stays to ditto: Sides 7 1/2" x 8 1/2"

Back 8" x 7 3/4"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules 218

Material of stays steel

Area at

Smallest part 1'-6"

Area supported by each stay 62"

Working pressure by rules 217

End plates in steam space: Material steel

Thickness 1 1/32"

Pitch of stays 7 1/2" x 16"

How are stays secured

Screwed through both plates

Working pressure by rules 215

Material of stays steel

Area at smallest part 5.939

Area supported by each stay 306"

Working pressure by rules 215

Material of Front plates at bottom steel

Thickness 3/32"

Material of

Greatest pitch of stays 13 1/2"

Working pressure of plate by rules 240

Diameter of tubes 2 1/2"

Pitch of tubes 3 3/4" x 3 3/4"

Material of tube plates steel

Thickness: Front 3/32"

Back 1/16"

Mean pitch of stays 9 3/8"

Pitch across wide

Working pressures by rules 252

Girders to Chamber tops: Material steel

Depth and thickness of

Order at centre 8" x 3/4" double

Length as per rule 27 1/2"

Distance apart 8 3/8"

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

Working pressure by rules 215

Steam dome: description of joint to shell

None

% 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 none

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

WILLIAM DENNY & BROTHERS, LTD.

The foregoing is a correct description,

Wm Denny & Bros.

Manufacturer.

During progress of

work in shops - - -

During erection on

board vessel - - -

Is the approved plan of boiler forwarded herewith

yes

Total No. of visits 50

GENERAL REMARKS

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

This boiler has been built under

special survey the materials and workmanship are of good

description, it has been well fitted on board the above vessel

is fitted for burning oil fuel & can be used in conjunction with

the main boiler

GLASGOW

14 FEB 1922

A. McLeod

Engineer Surveyor to Lloyd's Register of Shipping.

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Committee's Minute

Signed See accompanying machinery report.

W158-0026