

REPORT ON BOILERS.

No. 2101
WED. 12 DEC. 1917

Received at London Office

Date of writing Report 19th Sep. 1917 When handed in at Local Office

Port of Kobe

No. in Survey held at

Kobe

Date, First Survey 13 January

Last Survey 16 October 1917

Reg. Book.

on the Steel Single Screw Steamer "War Hero"

(Number of Visits 15)

Gross 5875

Net 4278

Master

Williams

Built at

Kobe

By whom built

The Kawasaki Dry Dock Co. Ltd.

When built

1917

Engines made at

Kobe

By whom made

The Kawasaki Dry Dock Co. Ltd.

when made

1917

Boilers made at

do

By whom made

do

when made

do

Registered Horse Power

440

Owners Messrs. Turner, Wilby & Co. Ltd.

Port belonging to

London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel Carnegie, John Spence, John Marsh.

Letter for record

Total Heating Surface of Boilers

11320

Is forced draft fitted

Yes

No. and Description of

Boilers

One S. E. Hor. Mult. br.

Working Pressure

200 lb.

Tested by hydraulic pressure to

400 lb.

Date of test 5/7/17

No. of Certificate

400 lbs. H.P.

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

33

No. and Description of

Safety valves to each boiler

Two, direct spring

Area of each valve

5.93

Pressure to which they are adjusted

205 lb.

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 or woodwork

18

Mean dia. of boilers

10' 10"

Length

10' 6"

Material of shell plates

Steel

Thickness

1"

Range of tensile strength

28-32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

but riv.

long. seams

but riv. stop

Diameter of rivet holes in long. seams

1 1/16

Pitch of rivets

6 29/32 x 3 29/64

width of butt straps

14 1/2 x 1"

Per centages of strength of longitudinal joint

rivets 95.2

Working pressure of shell by

Size of manhole in shell

200 lb.

Size of compensating ring

(4 1/4 + flange) x 1"

No. and Description of Furnaces in each

Description of longitudinal joint

Weld

No. of strengthening rings

Working pressure of furnace by the rules

236 lb.

Combustion chamber

Plates: Material

Steel

Thickness: Sides

5/8

Back

5/8

Top

5/8

Bottom

3/4

Pitch of stays to ditto: Sides

7 x 8 1/2

Back

7 13/16 x 8 1/8

Area

Diameter at

Top

7 x 8

If stays are fitted with nuts or riveted heads

Nut in cc.

Working pressure by rules

204 lb.

Material of stays

Steel

Smallest part

1.78

Area supported by each stay

66

Working pressure by rules

242 lb.

End plates in steam space: Material

Steel

Thickness

7/8

Material of stays

Steel

Area

Diameter at smallest part

5.27

Pitch of stays

15 1/4 x 14 1/2

How are stays secured

but. nuts

Working pressure by rules

202 lb.

Material of stays

Steel

Area supported by each stay

15 1/4 x 14 1/2

Working pressure by rules

238 lb.

Material of Front plates at bottom

Steel

Thickness

3/4

Material of

Lower back plate

Steel

Thickness

3/4

Greatest pitch of stays

13 1/2 in. br.

Working pressure of plate by rules

200 lb.

Diameter of tubes

3 1/2

Pitch of tubes

4 3/4 mean

Material of tube plates

Steel

Thickness: Front

7/8

Back

3/4

Mean pitch of stays

8 3/4

Pitch across wide

water spaces

13 3/4

Working pressures by rules

200 lb.

Girders to Chamber tops: Material

Steel

Depth and thickness of

girder at centre

8 @ 13/16 (2)

length as per rule

24

Distance apart

8

Working pressure by rules

256 lb.

Superheater or Steam chest: how connected to boiler

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

Average

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

End plates: Thickness

How stayed

Are they fitted with easing gear

The foregoing is a correct description,

Kawasaki Dockyard Co., Ltd.,

Manufacturer.

Per.

Is the approved plan of boiler forward

Secretary.

Total No. of visits

15

Dates

During progress of

work in shops - - -

13 Jan. to 14 Aug.

While

During erection on

building

board vessel - - -

12 Sept. to 16 Oct. 1917

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

This boiler has been made & fitted under Special Survey in accordance

with the Rules & the materials & workmanship have been found good.

Survey Fee (4.50) entered on

machinery report.

When applied for,

19

Travelling Expenses (if any)

When received,

19

Committee's Minute

Assigned

FRI. 28 DEC. 1917

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

A. D. Jones

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Lloyd's Register

W566-0163

Foundation