

REPORT ON BOILERS.

No. 17957

Date of writing Report 2nd Feb 1922

When handed in at Local Office

2/2/

1922.

Port of

Received at London Office

WED. FEB 8 1922

No. in

Survey held at

Greenock and Pt. Glasgow

Date, First Survey

19th January, 1920

Last Survey

1st Feb 1922

Reg. Book.

on the

Screw Steamer. "KOHINUR"

(Number of Visits 145.)

Tons

Gross 516⁵

Net 3240

When built 1922. 2

Master

Built at

Pt. Glasgow

By whom built

Lithyons Ltd.

Engines made at

Greenock

By whom made

Rankin and Blackmore Ltd.

When made 1922

Boilers made at

Greenock

By whom made

Rankin and Blackmore Ltd.

When made 1922

Registered Horse Power

Owners

The Asiatic Steam Nav. Co. Ltd. Port belonging to London.

MULTITUBULAR BOILERS

MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

J. Dumble & Co. Ltd.

(Letter for record S.)

Total Heating Surface of Boilers

1006 ^{sq} ft

Is forced draft fitted

No

No. and Description of

Boilers

One. Cyl. Single End.

Working Pressure

100 ^{lb}

Tested by hydraulic pressure to

200 ^{lb}

Date of test 22.3.21.

No. of Certificate

1552

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

32 ^{sq} ft

No. and Description of

safety valves to each boiler

Two Spring

Area of each valve

7.06 ^{sq} in

Pressure to which they are adjusted

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

on uptakes and bunkers

on woodwork

16 in

Mean dia. of boilers

11'-0"

Length

Material of shell plates

S.

Thickness

19/32

Range of tensile strength

28/32 T.

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

L.D.R.

long. seams

DBS/7A.

Diameter of rivet holes in long. seams

13/16

Pitch of rivets

Lap of plates: width of butt straps

8 3/4

Per centages of strength of longitudinal joint

rivets 83.5

plate 82.6

Working pressure of shell by

rules

103 ^{lb}

Size of manhole in shell

16" x 12"

Size of compensating ring

29 1/2" 25"

21/32

No. and Description of Furnaces in each

boiler

2. Plain

Material

S.

Outside diameter

37 7/8"

Length of plain part

top 74 1/8"

bottom

Thickness of plates

crown 7/32"

bottom 7/32"

Description of longitudinal joint

D.B.S.

No. of strengthening rings

4mm

Working pressure of furnace by the rules

108 ^{lb}

Combustion chamber

plates: Material

S.

Thickness: Sides

17/32

Back

9/16

Top

19/32

Bottom

3/4

Pitch of stays to ditto: Sides

10 1/8" 8 1/2"

Back

10" x 10"

Top

2 3/4" 8 1/2"

If stays are fitted with nuts or riveted heads

Nut

Working pressure by rules

100 ^{lb}

Material of stays

S.

Area at

smallest part

1.47 ^{sq} ft

Area supported by each stay

108 ^{sq} in

Working pressure by rules

109 ^{lb}

Pitch of stays

21" x 19"

How are stays secured

D.N.

Working pressure by rules

100 ^{lb}

Material of stays

S.

Area at smallest part

4.3 ^{sq} ft

Area supported by each stay

399 ^{sq} in

Working pressure by rules

112 ^{lb}

Lower back plate

S.

Thickness

9/16

Greatest pitch of stays

10" x 10"

Working pressure of plate by rules

109 ^{lb}

Diameter of tubes

3 1/2"

Pitch of tubes

4 5/8"

Material of tube plates

S.

Thickness: Front

5/8"

Back

23/32"

Mean pitch of stays

9 1/4"

Pitch across wide

water spaces

13 1/2"

Working pressures by rules

102 ^{lb}

Girders to Chamber tops: Material

S.

Depth and thickness of

girder at centre

7 1/4" x 1 1/2"

Length as per rule

28.7"

Distance apart

12 3/4"

Number and pitch of Stays in each

2 @ 8 1/2"

Working pressure by rules

114 ^{lb}

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

-

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

W. J. Morris, Director.

Manufacturer.

Is the approved plan of boiler forwarded herewith

Yes.

Total No. of visits 145.

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

See accompanying report.

GENERAL REMARKS

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

The above Boiler has been constructed under Special Survey and has been fitted on board the Vessel in accordance with the Society's Rules.

Survey Fee

See Machinery Rpt

When applied for, 19

Travelling Expenses (if any) £

When received, 19

Committee's Minute

Assigned

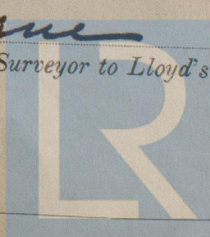
See attached machinery report.

GLASGOW

7 FEB 1922

W. Lane

Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation