

## REPORT ON MACHINERY.

No. 2528

Received at London Office

WED. 6 - AUG. 1919

Date of writing Report

19

When handed in at Local Office

19

Port of Kobe

No. in Survey held at  
Reg. Book.

Kobe

Date, First Survey

18 Oct 1918

Last Survey

29 April 1919

on the Steel Single Screw Steamer "Glasgow Maru"

(Number of Visits 43)

Master

Built at

Kobe

By whom built

The Kawasaki Dockyard Co. Ltd.

Tons

Gross

Net

When built

1919

Engines made at

Kobe

By whom made

The Kawasaki Dockyard Co. Ltd.

when made

1919

Boilers made at

Do.

By whom made

Do.

when made

1919

Registered Horse Power

437

Owners

The Kawasaki Kisen Kaisha Ltd.

Port belonging to

Kobe

Nom. Horse Power as per Section 28

110

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

yes

ENGINES, &amp;c.—Description of Engines

Triple Expansion

No. of Cylinders

Three

No. of Cranks

Three

Dia. of Cylinders

26: 43½: 72

Length of Stroke

48

Revs. per minute

70

Dia. of Screw shaft

as per rule 15.41

Material of

steel

Is the screw shaft fitted with a continuous liner the whole length of the stern tube

no

Is the after end of the liner made water tight

in the propeller boss

✓

If the liner is in more than one length are the joints burned

✓

If the liner does not fit tightly at the part

between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

✓

If two

liners are fitted, is the shaft lapped or protected between the liners

✓

Length of stern bush

5': 5¼"

Dia. of Tunnel shaft

as per rule 13.48 13.54

Dia. of Crank shaft journals

as per rule 14.15 14.21

Dia. of Crank pin

14¾"

Size of Crank webs

90½ x 20½"

Dia. of thrust shaft under

+26½ at pin + journal

collars

14¾"

Dia. of screw

14': 6"

Pitch of Screw

19': 0"

mean. No. of Blades

1

State whether moveable

yes

Total surface

100 sq. ft.

No. of Feed pumps

one

Diameter of ditto

5"

Stroke

24"

Can one be overhauled while the other is at work

yes (with Weir's feed).

No. of Bilge pumps

Two

Diameter of ditto

5"

Stroke

24"

Can one be overhauled while the other is at work

yes

No. of Donkey Engines

Three

Sizes of Pumps

Bal. 10" x 11" x 12" Dupl.  
Weir's feed 9½ x 7 x 24" two  
Gen. Serv. 7½ x 5 x 6 Dupl.

No. and size of Suctions connected to both Bilge and Donkey pumps

In Holds, &amp;c.

Nos. 1, 3 + 4 holds each two 3½"

In Engine Room

Three

3½"

No. of Bilge Injections

1

size

9"

Connected to condenser, or to circulating pump

Circ. p.

Is a separate Donkey Suction fitted in Engine room &amp; size

yes 3½"

Are all the bilge suction pipes fitted with roses

yes

Are the roses in Engine room always accessible

yes

Are the sluices on Engine room bulkheads always accessible

None

Are all connections with the sea direct on the skin of the ship

yes

Are they Valves or Cocks

Larger Valves, Smaller Cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

yes

Are the Discharge Pipes above or below the deep water line

above

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel

yes

Are the Blow Off Cocks fitted with a spigot and brass covering plate

yes

What pipes are carried through the bunkers

None

How are they protected

✓

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

yes

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

yes

Is the Screw Shaft Tunnel watertight

yes

Is it fitted with a watertight door

yes

worked from upper platform of E. R.

OILERS, &amp;c.—(Letter for record

S.)

Manufacturers of Steel

Illinois St. Co.

Amer. Spiral Pipe Wks.

Worth Bros.

Total Heating Surface of Boilers

= 5636 (aux. 36).

Working Pressure

200 lbs.

Tested by hydraulic pressure to

400 lbs.

Date of test

5th 10th 1919

No. of Certificate

4409 1587

Can each boiler be worked separately

yes

Area of fire grate in each boiler

60½"

No. and Description of Safety Valves to

each boiler

Two Spring loaded

Area of each valve

3¾" dia

Pressure to which they are adjusted

205 lbs.

Smallest distance between boilers or uptakes and bunkers or woodwork

12"

Mean dia. of boilers

14' 6"

Length

12' 0"

Material of shell plates

steel

Thickness

1¾"

Range of tensile strength

26,78 to 32,000

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

finds double

middle tube

long. seams

double riveted

Diameter of rivet holes in long. seams

1½"

Pitch of rivets

9½ x 11½"

Lap of plates or width of butt straps

20½ x 1½"

Per centages of strength of longitudinal joint

rivets 95.84

plate 84.28

Working pressure of shell by rules

200 lbs.

Size of manhole in shell

16 x 12

Size of compensating ring

(4½ x flange) 1½"

No. and Description of Furnaces in each boiler

3 Morrison's

Material

steel

Outside diameter

48½"

Length of plain part

top ✓

Thickness of plates

crown 2/32"

Description of longitudinal joint

Weld

No. of strengthening rings

✓

Working pressure of furnace by the rules

221

Combustion chamber plates: Material

steel

Thickness: Sides

1/16"

Back

1/16"

Top

1/16"

Bottom

1/8"

Pitch of stays to ditto: Sides

8½ x 8½"

Back

8½ x 9"

Top

8½ x 9½"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

203 lbs.

Material of stays

steel

Area at smallest part

2.10"

Area supported by each stay

8½ x 9½"

Working pressure by rules

230 lbs.

End plates in steam space:

Material

steel

Thickness

1½"

Pitch of stays

19½ x 20½"

Area at smallest part

10"

Area supported by each stay

19½ x 20½"

Working pressure by rules

260 lbs.

Material of Front plates at bottom

steel

Thickness

1/16"

Material of Lower back plate

steel

Thickness

3/4"

Greatest pitch of stays

13½ at wide

Diameter of tubes

3½"

Pitch of tubes

1½ x 1½"

Material of tube plates

steel

Thickness: Front

1"

Back

13/16"

Mean pitch of stays

8¾"

Pitch across wide water spaces

13½ + 3/4"

Working pressures by rules

210 lbs.

Girders to Chamber tops: Material

steel

Depth and

thickness of girder at centre

10½ + 13/16 (2)

Length as per rule

34½"

Distance apart

9¾"

Number and pitch of stays in each

3 @ 8½"

Working pressure by rules

220 lbs.

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





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