

REPORT ON MACHINERY.

No. 2514

Received at London Office

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 19th Sept. 1918 Last Survey 15th April 1919

on the Steel Single Screw Steamer "New York Maru" 37

Tons Gross 5863.89

Master

Built at

Kobe

By whom built

The Kawasaki Dockyard Co. Ltd. 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

Owners

The Kawasaki Kisen Kabushiki Kaisha

Port belonging to

Kobe

Nom. Horse Power as per Section 28

440

Is Refrigerating Machinery fitted for cargo purposes

No.

Is Electric Light fitted

Yes

ENGINES, &c.—Description of Engines Triple Expansion

No. of Cylinders Three

No. of Cranks Three

Dia. of Cylinders 26: 43 1/2: 72

Length of Stroke 18

Revs. per minute 70

Dia. of Screw shaft

as per rule 15.4

Material of

Steel

Is the screw shaft fitted with a continuous liner the whole length of the stern tube No liner

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': 5 1/4"

Dia. of Tunnel shaft

as per rule 13.48

Dia. of Crank shaft journals

as per rule 14.21

Dia. of Crank pin 14 3/4"

Size of Crank webs

90 1/2 x 20 1/2

Dia. of thrust shaft under

+ 26 1/2 at pin + journal

collars 14 3/8

Dia. of screw 17: 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 6"

Stroke 21"

Can one be overhauled while the other is at work

Yes (with New's feed)

No. of Bilge pumps Two

Diameter of ditto 6"

Stroke 21"

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.

New's feed 9 1/2 x 7 x 21 two

Gen. Serv. 7 1/2 x 5 x 6 Dupl.

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

In Engine Room Three

3 1/2

and One 3 1/2 to tunnel Well

In Holds, &c.

Nos. 1, 3 + 1 holds each two 3 1/2

No. 2 hold, two 1"

No. of Bilge Injections 1

sizes

9"

Connected to condenser, or to circulating pump

Yes

Is a separate Donkey Suction fitted in Engine room & size

Yes 3 1/2

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 Eng. R.

BOILERS, &c.—(Letter for record

S.)

Manufacturers of Steel

Illinois Steel

Worth Bros

Amer. Spiral Pipe Wks.

2304.8 x 2 + 1132 Auce. Blr.

Total Heating Surface of Boilers = 5741

Is Forced Draft fitted

Yes

No. and Description of Boilers

Two 5. 6 + Auce. 5. 6.

Working Pressure 200 lbs.

Tested by hydraulic pressure to

400 lbs.

Date of test

15th 18 Jan 1919

No. of Certificate

11090'S TEST

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

60 1/2'

No. and Description of Safety Valves to

each boiler Two Spring loaded

Area of each valve 3 3/4" dia.

Pressure to which they are adjusted

205 lbs.

Are they fitted with easing gear

Yes

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 1 5/16"

Range of tensile strength

28 to 32 tons

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

Doub. rivd.

long. seams

Doub. Straps

Diameter of rivet holes in long. seams

1 3/8"

Pitch of rivets

8 3/4 + 1 3/8"

Lap of plates or width of butt straps

19 3/8 x 1 1/4"

Per centages of strength of longitudinal joint

rivets 95.81

plate 81.28

Working pressure of shell by rules

202 lbs.

Size of manhole in shell

16 x 12

18 x 22

Size of compensating ring (1 1/2 + flange) 1 5/16"

No. and Description of Furnaces in each boiler

3 Morrison's

Material

Steel

Outside diameter

18 1/4"

Length of plain part

top

✓

Thickness of plates

crown 2 1/32"

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 1/16"

Back

1 1/16"

Pitch of stays to ditto: Sides

8 1/2 x 8 1/2"

Back

8 1/2 x 9"

Top

8 1/2 x 9 3/8"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

Material of stays

Steel

Area at smallest part

2.1"

Area supported by each stay

8 1/2 x 9 3/8"

Working pressure by rules

230 lbs.

End plates in steam space:

Material

Steel

Thickness

1 5/8"

Pitch of stays

9 3/4 x 20 1/2"

How are stays secured

Doub. nuts

Working pressure by rules

201 lbs.

Area at smallest part

10"

Area supported by each stay

19 3/4 x 20 1/2"

Working pressure by rules

260 lbs.

Material of Front plates at bottom

Steel

Thickness

13/16"

Material of Lower back plate

Steel

Thickness

3/4"

Greatest pitch of stays

13 1/2 at wide

Working pressure of plate by rules

200 lbs.

Diameter of tubes

3 1/4"

Pitch of tubes

4 1/16 x 4 5/16"

Material of tube plates

Steel

Thickness: Front

1"

Back

1 3/16"

Pitch across wide water spaces

13 3/4 + 3/4"

Working pressures by rules

210 lbs.

Girders to Chamber tops: Material

Steel

Depth and

thickness of girder at centre

10 3/4 + 1 3/16 (2)

Length as per rule

34 1/2"

Distance apart

9 3/8"

Number and pitch of stays in each

3 @ 8 1/2"

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

Lloyd's Register

Foundation

W 787-0033

IS A DONKEY BOILER FITTED? *Ans. Blr. only* If so, is a report now forwarded? *Yes*

SPARE GEAR. State the articles supplied:—

Four Main bearing bolts + nuts	Set packing rings + springs each piston	Centrifugal pump impeller + shaft
Two Crank pin bolts + nuts	Set junk ring bolts + nuts	Crosshead + Crankpin brasses A.P. rod
Two Crosshead bolts + nuts	One part Crank shaft	nut. 3 Safety Valve springs
Set Coupling bolts + nuts	Propeller shaft	Cond. + Blr. tubes etc etc.
Set Feed + Bilge pump valves	Four blades + 2 sets studs + nuts	
Assorted bolts + nuts + iron	Slide Valve spindle each size	

The foregoing is a correct description,

Kawasaki Dockyard Co., Ltd.,

Per

Shakajima

Manufacturer.

Secretary.

Dates of Survey while building	During progress of work in shops ---	19.28 Sep. 24.26 Oct. 5.9.16.27 Nov. 7.17.19.20.23 Dec 1918. 9.10.14.15.16.18.25.27 Jan. 1919
	During erection on board vessel ---	4.7.12.13.21.24 Feb. 3.10.18.20.24 Mar. 4.9.14.15 April 1919
	Total No. of visits	37

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders	23.1.19	Slides	27.1.19	Covers	16.1.19	Pistons	16.1.19	Rods	10.1.19	Connecting rods	10.1.19	Crank shaft	10.1.19	Thrust shaft	10.1.19	Tunnel shafts	24/10/18. 13/2/19	Screw shaft	21.2.19	Propeller	7.2.19	Stern tube	7.2.19	Steam pipes tested	3/3/19	24/2/19	Engine and boiler seatings	20.3.19	Engines holding down bolts	4.4.19					
Completion of pumping arrangements	4.4.19	Boilers fixed	4.4.19	Engines tried under steam	14.4.19	Completion of fitting sea connections	24.3.19	Stern tube	10.3.19	Screw shaft and propeller	24.3.19	Main boiler safety valves adjusted	9.4.19	Thickness of adjusting washers	Locknuts.	Material of Crank shaft	Steel	Identification Mark on Do.	LLOYD'S 10.1.19 A.W.	Material of Thrust shaft	Steel	Identification Mark on Do.	LLOYD'S 10.1.19 A.W.	Material of Tunnel shafts	Steel	Identification Marks on Do.	LLOYD'S 24/10/18 13/2/19 A.W.	Material of Screw shafts	Steel	Identification Marks on Do.	LLOYD'S 21.2.19 A.W.	Material of Steam Pipes	Steel	Test pressure	600 lbs

Is an installation fitted for burning oil fuel *No.*

Is the flash point of the oil to be used over 150°F.

Spare shaft LLOYD'S 18.3.19 A.W.

Have the requirements of Section 49 of the Rules been complied with *✓*

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *War Queen (2009) etc. Portland M. San Francisco Mar (2496).*

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

This Machinery has been made and fitted under Special Survey in accordance with the requirements of the Rules and the materials and workmanship are good.

The vessel is eligible in my opinion for the notation + LMC 4.1919

It is submitted that this vessel is eligible for THE RECORD. + LMC 4.19. FD.

Recd. 8.7.19

The amount of Entry Fee	... <i>yes</i> : 30 :	When applied for,	27 Apr. 1919
Special	... <i>yes</i> : 735 :	When received,	8 th May. 1919
Boiler Fee included	:		
Travelling Expenses (if any)	<i>yes</i> : 15 :		

Committee's Minute FRI. 11 JUL. 1919

Assigned

MACHINERY CERTIFICATE WRITTEN.

A. L. Jones

Engineer Surveyor to Lloyd's Register of Shipping.



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