

## REPORT ON MACHINERY.

No. 2444

Received at London Office

Date of writing Report

When handed in at Local Office

Port of Kobe

MON. 14 APR. 1919

No. in Survey held at Kobe  
Reg. Book.

Date, First Survey 18 May 1918 Last Survey 1st July 1919

(Number of Visits 40)

on the Steel Single Screw Steamer "Tokufuku Maru"

(K.Ya. No. 433)

Gross 5858

Net 4293

Master M. Seno

Built at

Kobe

By whom built The Kawasaki Dykd. Co. Ltd.

When built 1919

Engines made at

Kobe

By whom made The Kawasaki Dykd. Co. Ltd.

when made 1919

Boilers made at

do

By whom made

do

when made do

Registered Horse Power

Owners

do

Port belonging to Kobe

Nom. Horse Power as per Section

444

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: 43 1/2: 72"

Length of Stroke 48"

Revs. per minute 70

Dia. of Screw shaft

as per rule 15.55

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

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

Length of stern bush 5: 5 1/2"

Dia. of Tunnel shaft

as per rule 13.48

Dia. of Crank shaft journals

as per rule 14.15

Dia. of Crank pin 14 3/4"

Size of Crank webs 9 1/2 x 20 1/2"

collars 14 3/8"

Dia. of screw 14: 6"

Pitch of Screw 19: 0" mean

No. of Blades 4

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 (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" dup.

New 9 1/2" x 7 1/2" x 24" two

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

In Engine Room Three 3 1/2"

Gen. Service 7 1/2" x 5" x 6" dup.

In Holds, &amp;c.

Nos. 1, 3 &amp; 4 holds, two 3 1/2"

No. 2 hold two 4"

No. of Bilge Injections 1

sizes 9"

Connected to condenser, or to circulating pump

T. p.

Is a separate Donkey Suction fitted in Engine room &amp; 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 the Discharge Pipes above or below the deep water line

above

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

yes

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

yes

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

yes

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

yes

How are they protected

yes

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

What pipes are carried through the bunkers

None

How are they protected

yes

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

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Is the Screw Shaft Tunnel watertight

yes

Is it fitted with a watertight door

yes

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Is it fitted with a watertight door

yes

worked from upper platform E. Rm.

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IS A DONKEY BOILER FITTED? No

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

Four main bearing bolts + nuts. ✓ Set packing rings + springs each piston  
 Two Crank pin " " ✓ Set junk ring bolts + nuts.  
 Two crosshead " " ✓ Propeller shaft  
 Set Coupling " " ✓ Four blades + 2 sets studs + nuts  
 Set feed + bilge pump valves. ✓ Slide valve spindle Each size  
 Assorted bolts + nuts + iron. ✓ Centrifugal pump impeller + shaft.  
 Crosshead + Crank pin brasses. A.P. rod + nut  
 3 safety valve springs. Cond. + blw. tube etc. etc.

The foregoing is a correct description,

Kawasaki Dockyard Co., Ltd.,

Per

Secretary

Manufacturer.

Dates of Survey while building { During progress of work in shops -- 18 May. 28 June. 13.17.20.22.25.29 July 5.8.13.24.29.30 Aug.  
 { During erection on board vessel -- 13.19 Sept. 5.18.21.23 Oct. 1.3.13.25 Nov. 6.12.14.16.19.23 Dec.  
 Total No. of visits 40/8.9.13.15.20.22.27.28.30 Jan. 1.2 July. 1919

Dates of Examination of principal parts—Cylinders 25/11/18 Slides 5/8/18 Covers 23/11/18 Pistons 18.10.18 Rods 5.8.18  
 Connecting rods 30.8.18 Crank shaft 5.10.18 Thrust shaft 18.5.18 Tunnel shafts 19.12.18 Screw shaft 14.12.18 Propeller 23.12.18

Stern tube 23.12.18 Steam pipes tested 20.1.19 Engine and boiler seatings 8.1.19 Engines holding down bolts 22.1.19  
 Completion of pumping arrangements 22.1.19 Boilers fixed 22.1.19 Engines tried under steam 30.1.19  
 Completion of fitting sea connections 9.1.19 Stern tube 9.1.19 Screw shaft and propeller 13.1.19  
 Main boiler safety valves adjusted 27/1/19 Thickness of adjusting washers Locknuts. Clew S Blt A 9/16 PBL F 3/8 F 5/8

Material of Crank shaft Steel Identification Mark on Do. LLOYDS 5.10.18 Material of Thrust shaft Steel Identification Mark on Do. LLOYDS 18/10/18; 23/10/18; 14/12/18; 19/12/18. A.L.J. R. Test pressure 600 lbs

Material of Tunnel shafts Steel Identification Marks on Do. LLOYDS Material of Screw shafts Steel Identification Marks on Do. LLOYDS 18/10/18; 23/10/18; 14/12/18; 19/12/18. A.L.J. R. Test pressure 600 lbs

Material of Steam Pipes S. S. Steel ✓ 18/10/18; 23/10/18; 14/12/18; 19/12/18. A.L.J. R. 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:— { K.S. 116 in 13 in 32 in 2 in 2 in 5 in and 2 in 1/2 are lights with in Where are DESCRIPTION Main cable c Branch cable Branch cable Branch cable Branch cable Leads to lam Cargo light c DESCRIPTION Condu Cables or lead Joints in ca water- Are all the made i Are there a How are th addition

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 "Wat Duen" (except boiler); "Shin Roku Maru", "Sei-fuku Maru" etc.

General Remarks (State quality of workmanship, opinions as to class, &c.) The machinery has been made & fitted under Special Survey in accordance with the requirements of the Rules & the materials & workmanship are good.

The vessel is eligible in my opinion for the notation + L.M.C. 2.1919.

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 2.19. F.D.

The amount of Entry Fee ... 30 : When applied for, 17 Feb 1919  
 Special ... 735 :  
 Donkey Boiler Fee ... £ :  
 Travelling Expenses (if any) 15 : When received, 21 Feb 1919

Committee's Minute

THU. 17. APR. 1919

Assigned

+ L.M.C. 2.19 F.D.

Engineer Surveyor to Lloyd's Register of Shipping.



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