

REPORT ON MACHINERY.

No. 2442

Received at London Office

of writing Report 27/3/1919 When handed in at Local Office

10 Port of Kobe

in Survey held at Imoshima + Osaka Date, First Survey 2nd December 1918 Last Survey 31/3/1919

on the Single Steel Screw Steamer Jinsbo Maru

ster H. Abe Built at Imoshima By whom built Osaka Iron Works Ltd

ines made at Imoshima By whom made Osaka Iron Works Ltd (Imoshima Branch)

lers made at Osaka By whom made Osaka Iron Works Ltd when made 1919

istered Horse Power 288 Owners Taiyo Kisen Kaisha Ltd. Port belonging to Kobe

n. Horse Power as per Section 28 288 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

GINES, &c.—Description of Engines Triple Expansion No. of Cylinders Three No. of Cranks Three

a. of Cylinders 22" 34" 61" Length of Stroke 12" Revs. per minute 90.5 Dia. of Screw shaft as per rule 12.8" Material of steel

the screw shaft fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made water tight

the propeller boss Yes If the liner is in more than one length are the joints burned one length If the liner does not fit tightly at the part

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

ers are fitted, is the shaft lapped or protected between the liners Length of stern bush 4' 9 3/4"

a. of Tunnel shaft as per rule 11.2" Dia. of Crank shaft journals as per rule 11.74" Dia. of Crank pin 12" Size of Crank webs 8x25 1/2" Dia. of thrust shaft under

lars 12" Dia. of screw 16" Pitch of Screw 16' - 4 1/2" No. of Blades 4 State whether moveable No Total surface 80 sq. ft.

a. of Feed pumps 2 Diameter of ditto 3 1/2" Stroke 24" Can one be overhauled while the other is at work Yes

a. of Bilge pumps 2 Diameter of ditto 3 1/2" Stroke 24" Can one be overhauled while the other is at work Yes

a. of Donkey Engines 3 Duplex Sizes of Pumps 2 @ 6x4x16 feed General No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room 1 main bilge 4" 2 E.R. bilge P+S 3" In Holds, &c. 1. No. 1 + 2 holds. 2 No. 3 hold. 2 Boiler room

all 3" dia. 1 No. 3 hold 3 1/2" Tunnel bilge 2 1/2"

a. of Bilge Injections 1 sizes 4 1/2" Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size Yes 3"

re 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 Yes

re all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Both larger valves, smaller Cocks

re 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

re 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

That pipes are carried through the bunkers Voice tube, Soil pipes + pipes with Electric Wire How are they protected Wood + Iron bands

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

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

ates of examination of completion of fitting of Sea Connections 30th Jan. 1919 of Stern Tube 27-1-19 Screw shaft and Propeller 30-1-19

the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from E.R. middle grating

MILERS, &c.—(Letter for record S.) Manufacturers of Steel Lukens I & S Co. Pacific Coast S.H. Co. Alkham S.H. Co.

Total Heating Surface of Boilers 3824 Is Forced Draft fitted Yes No. and Description of Boilers Two single ended

Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 13-1-19 No. of Certificate 13-1-19 Y.J.

Can each boiler be worked separately Yes Area of fire grate in each boiler 450' No. and Description of Safety Valves to

each boiler Two spring loaded Area of each valve 3 1/2" dia. Pressure to which they are adjusted 180 lbs. Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 1' 6" Mean dia. of boilers 13' 6" Length 11' 6" Material of shell plates Steel

Thickness 1 3/16" Range of tensile strength 26.79-27 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams D.R.L.

ong. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 8 3/8" x 1" Lap of plates or width of butt straps 1' 6 1/2"

Per centages of strength of longitudinal joint rivets 92.9 Working pressure of shell by rules 184 Size of manhole in shell 12" x 16" + 11" x 15"

Size of compensating ring Flanged No. and Description of Furnaces in each boiler 3 Deighton Material steel Outside diameter 3' 4 1/2"

Length of plain part top Thickness of plates crown Description of longitudinal joint Welded No. of strengthening rings

Working pressure of furnace by the rules 184 Combustion chamber plates: Material steel Thickness: Sides 3/4" Back 3/4" Top 3/4" Bottom 7/8"

Pitch of stays to ditto: Sides 9" x 10" Back 8 3/4" x 10" Top 9" x 10 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 184

Material of stays steel Diameter at smallest part 2" Area supported by each stay 90" Working pressure by rules 200 End plates in steam space:

Material steel Thickness 1 3/8" Pitch of stays 25" x 19" How are stays secured Dn + W6 Working pressure by rules 180 Material of stays steel

Diameter at smallest part 8 1/16" Area supported by each stay 25" x 19" Working pressure by rules 180 Material of Front plates at bottom steel

Thickness 1" Material of Lower back plate steel Thickness 1 5/16" Greatest pitch of stays 14" wide water Working pressure of plate by rules 180

Diameter of tubes 3" Pitch of tubes 4.3 mean Material of tube plates steel Thickness: Front 1" Back 1/8" Mean pitch of stays 10 1/2"

Pitch across wide water spaces 14" Working pressures by rules 180 Girders to Chamber tops: Material steel Depth and

thickness of girder at centre 10" x 7 1/8" two Length as per rule 32" Distance apart 10 1/2" Number and pitch of stays in each 2 @ 9"

Working pressure by rules 200 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

holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

Lloyd's Register
Foundation

W563-0025

VERTICAL DONKEY BOILER—

Manufacturers of Steel

No donkey boiler fitted ✓

No. Description
Made at By whom made When made Where fixed
Working pressure tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of Sa
Valves No. of Safety Valves Area of each Pressure to which they are adjusted Date of adjustment
If fitted with casing gear If steam from main boilers can enter the donkey boiler Dia. of donkey boiler Length
Material of shell plates Thickness Range of tensile strength Descrip. of riveting long. seams
Dia. of rivet holes Whether punched or drilled Pitch of rivets Lap of plating Per centage of strength of joint Rivets
Working pressure of shell by rules Thickness of shell crown plates Radius of do. No. of stays to do. Dia. of stays
Diameter of furnace Top Bottom Length of furnace Thickness of furnace plates Description of joint
Working pressure of furnace by rules Thickness of furnace crown plates Radius of do. Stayed by
Diameter of uptake Thickness of uptake plates Thickness of water tubes Dates of survey

SPARE GEAR. State the articles supplied:— One set piston springs, one set of top & bottom and brasses bolts + complete. 1 set coupling bolts. 2 feed pump valves + seat. 2 Bilge pump valves + seats. Two slide valve spindles. 1 set of junk ring bolts. Two eccentric rods for main engine. One set circular pump valves + pump rod. Air pump rod. 30 Total number of condenser tubes. One set main bearing bolts. Two safety valve springs. One set feed pump valves + seat. Assorted bolts + nuts.

The foregoing is a correct description,

Kahachi & Co

Manufacturer



Dates of Survey while building
During progress of work in shops - 2/12/18 - 10/12 - 17/12 - 24/12 - 31/12 - 7/1 - 14/1 - 21/1 - 27/1/19 Engines
During erection on board vessel - 13/11/18 - 22/11 - 25/11 - 5/12 - 9/12 - 11/12 - 23/12/18 - 13/1/19 Boilers
Total No. of visits Twenty four
Is the approved plan of main boiler forwarded herewith yes

Dates of Examination of principal parts—Cylinders 2/12/18 Slides 2/12/18 Covers 26/12/18 Pistons 14/10/18 Rods 14/10/18
Connecting rods 8-10-18 Crank shaft 20-11-18 Thrust shaft 2-8-18 Tunnel shafts 19-11-18 Screw shaft 23-12-18 Propeller 21-1-1
Stern tube 11-1-19 Steam pipes tested 19-2-19 Engine and boiler seatings 14-2-19 Engines holding down bolts 28-2-19
Completion of pumping arrangements 28-2-19 Boilers fixed 28-2-19 Engines tried under steam 3-3-19
Main boiler safety valves adjusted 3-3-19 Thickness of adjusting washers locknuts. ✓
Material of Crank shaft Steel Identification Mark on Do. Y. J. B. Lloyd's 20-11-18 Material of Thrust shaft Steel Identification Mark on Do. 2-8-19
Material of Tunnel shafts Steel Identification Marks on Do. Lloyd's 17-9-19, 29-10-19, 19-11-19 Material of Screw shafts Steel Identification Marks on Do. Lloyd's 23-12-18, 25-10-18, Y. J. B.
Material of Steam Pipes Steel tested 19-2-19 Test pressure 360. ✓ 9540

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 and the material and workmanship have been found good.

The machinery is eligible in my opinion for the record of + L.M. 3-19.

It is submitted that this vessel is eligible for THE RECORD + LMC 3.19. F.D.

JUD. 22/5/19

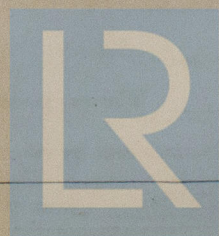
The amount of Entry Fee . £ Yen. 20.00 When applied for,
Special . . . £ 602.00 Feb. 26. 1919
Donkey Boiler Fee . . . £ : : When received,
Travelling Expenses (if any) £ : : 2nd Apr 1919

Committee's Minute TUE 27 MAY 1919

Assigned

+ L.M.C 3.19 J.S.

John Sim
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



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Lloyd's Register Foundation

Rpt. 13.

Port of

No. in Reg. Book

Owners

Yard No.

DESCRIPTION

Capacity of D

Where is Dyn

Position of M

Positions of a

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for 2

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If vessel is wi

Are the cut ou

Are all cut out

are perm

Are all switch

Total number

A Engines

B Officers

C Crews

D Wireless

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Branch cables

Branch cables

Leads to lamps

Cargo light cab

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