

REPORT ON MACHINERY.

No. 2487.

Received at London Office

WED. 9--JUL. 1919

Date of writing Report 31st May, 1919 When handed in at Local Office

Port of Yokohama

No. in Survey held at Yokohama
Reg. Book.

Date, First Survey Decr 12th

Last Survey 28th May, 1919

(Number of Visits 25)

on the S. S. "Roazan Maru"

Tons { Gross 5446
Net 3406Master Built at Tsurumi By whom built Asano Shipbuilding Co. Ltd. When built 1919
(Yard No. 12)

Engines made at Kobe By whom made Kobe Steel Works when made 1919

Boilers made at Tokyo By whom made Ishikawajima S. B. & E. Co. Ltd. when made 1919

Registered Horse Power 3500 Owners Hashimoto Kisen Kaisha Port belonging to Uraga

Nom. Horse Power as per Section 28 513 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines

No. of Cylinders

No. of Cranks

Dia. of Cylinders Length of Stroke Revs. per minute 80 Dia. of Screw shaft as per rule Material of screw shaft as fitted

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

Dia. of Tunnel shaft as per rule Dia. of Crank shaft journals as per rule Dia. of Crank pin Size of Crank webs Dia. of thrust shaft under

collars Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface

No. of Feed pumps 2 Diameter of ditto 4½ Stroke 24 Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2 Diameter of ditto 4½ Stroke 24 Can one be overhauled while the other is at work Yes

No. of Donkey Engines 1 G.D. Sizes of Pumps 9" x 15" x 10" No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 3-3½" Woodeson feed pumps 10½ x 8 x 8 In Holds, &c. No. 1, 1-3½", No. 2, 2-3½",

No. 3, 2-3½", No. 4, 2-3½". tunnel well 1 - 2½".

No. of Bilge Injections 1 sizes 8" Connected to condenser, or to circulating pump Cer. P. Is a separate Donkey Suction fitted in Engine room & size Yes 5"

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 Both

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 No. 1-2 holds bilge suctions How are they protected Wood ceiling

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 Top platform

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Worth Bros.

Total Heating Surface of Boilers 7376.4 Is Forced Draft fitted Yes No. and Description of Boilers 3 Multitubular

Working Pressure 200 Tested by hydraulic pressure to 400 Date of test 28-4-19 No. of Certificate 45 I off

Can each boiler be worked separately Yes Area of fire grate in each boiler 58.289 ft No. and Description of Safety Valves to

each boiler 2 Spring loaded Area of each valve 11.04 sq in Pressure to which they are adjusted 205 Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 22" Mean dia. of boilers 14'-3" Length 11'-6" Material of shell plates S

Thickness 13 Range of tensile strength 28-32 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams D.R.

long. seams D.B.S.T.R. Diameter of rivet holes in long. seams 1½ Pitch of rivets 10 Lap of plates or width of butt straps 22

Per centages of strength of longitudinal joint rivets 91.4 Working pressure of shell by rules 223 Size of manhole in shell 16 x 12

Size of compensating ring 36½ x 32½ No. and Description of Furnaces in each boiler 3 Deighton Material S Outside diameter 3-10½

Length of plain part top xx Thickness of plates crown 1 Description of longitudinal joint Weld No. of strengthening rings x

Working pressure of furnace by the rules 217 Combustion chamber plates: Material S Thickness: Sides 45/64 Back 44/64 Top 45/64 Bottom 15/16

Pitch of stays to ditto: Sides 10½ x 7½ Back 8½ x 8½ Top 9½ x 8 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 207

Material of stays S Area at smallest part 2-03 Area supported by each stay 83 sq in Working pressure by rules 221 End plates in steam space:

Material S Thickness 13/16 Pitch of stays 18½ x 16½ How are stays secured D. nuts Working pressure by rules 214 Material of stays S

Area at smallest part 7.7 Area supported by each stay 311 sq in Working pressure by rules 249 Material of Front plates at bottom S

Thickness 3 Material of Lower back plate S Thickness 3 Greatest pitch of stays 8.5 Working pressure of plate by rules 276

Diameter of tubes 3 Pitch of tubes 4½ x 4½ Material of tube plates S Thickness: Front 3 Back 3 Mean pitch of stays 8 3/8

Pitch across wide water spaces 13½ Working pressures by rules 225 Girders to Chamber tops: Material S Depth and

thickness of girder at centre 8 x 12 Length as per rule 30 3/4 Distance apart 8 Number and pitch of stays in each 2 x 9 1/4

Working pressure by rules 225 Steam dome: description of joint to shell XX % of strength of joint

Diameter XX 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

IS A DONKEY BOILER FITTED? No

If so, is a report now forwarded? No

SPARE GEAR. State the articles supplied:— One crank shaft, one propeller shaft, one propeller blade, two connecting rod top - end bolts and nuts, two connecting rod bottom - end bolts and nuts, two main bearing bolts, one set of coupling bolts, one set of feed and bilge pump valves, one set of piston springs, a quantity of assorted bolts and nuts, iron of various sizes.

The foregoing is a correct description,

T. Uchida

Manufacturer.

Dates { During progress of work in shops - - Decr 12, Jan'y 18, 25, Feby 12, 21, March 3, 10, 17, 24, 31, April 4, 8, 14, 16, 23, 24, 25, 29, 30.
of Survey { During erection on board vessel - - - May 8, 9, 13, 16, 21, 26, 28.
while building { Total No. of visits 26.

Is the approved plan of main boiler forwarded herewith No

Dates of Examination of principal parts—Cylinders

Slides

Covers

Pistons

Rods

Connecting rods

Crank shaft

Thrust shaft

Tunnel shafts

Screw shaft

Propeller

Stern tube

Steam pipes tested

Engine and boiler seatings

Engines holding down bolts

Completion of pumping arrangements

Boilers fixed

Engines tried under steam

Completion of fitting sea connections

Stern tube

Screw shaft and propeller

Main boiler safety valves adjusted

Thickness of adjusting washers

Identification Mark on Do.

Material of Crank shaft

Identification Mark on Do.

Material of Thrust shaft

Identification Marks on Do.

Material of Tunnel shafts

Identification Marks on Do.

Material of Screw shafts

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.

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

See below.

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

The machinery of this

vessel has been built under special survey in accordance with the approved plans and the Society's Rules, the materials and workmanship are good, the machinery has been satisfactorily tried under steam, and is in my opinion eligible for the record LMC 5-19.

See Kobe Report No. 2505 for engines.

Duplicate vessels "Kureha Maru" Report No. 2382,

"Yoshida Maru No. I. Report No. 2439,

"Buyo Maru" Report No. 2452,

"Yayoi Maru" Report No. 2462,

"Choyo Maru" Report No. 2481.

It is submitted that this vessel is eligible for THE RECORD. + LMC 5-19 F.D.

Rem. 9-7-19

The amount of Entry Fee ... \$ 500.00 29-5-19
Special ...
Donkey Boiler Fee ... £ 5.50 2-6-19
Travelling Expenses (if any) ...

Committee's Minute

TUE. JUL. 15. 1919

Assigned

MACHINERY CERTIFICATE WRITTEN.

James Cairns

Engineer Surveyor to Lloyd's Register of Shipping.



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