

REPORT ON MACHINERY.

No. 3102.

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Date of writing Report Mar. 17th 1921 When handed in at Local Office

19 Port of Kobe

No. in Survey held at Kobe Date, First Survey Nov. 3rd 1920 Last Survey Febr. 4th 1921
Reg. Book. on the Steel Single Screw Steamer "VICTORIA MARU" (Number of Visits 80)Master J. Narayama Built at Kobe By whom built Kawasaki Dockyard Co. Ltd. When built 1921
Engines made at Kobe By whom made Kawasaki Dockyard Co. Ltd. when made 1921
Boilers made at do By whom made do when made 1921Registered Horse Power Owners Kawasaki Dockyard Co. Ltd. Port belonging to Kobe
Nom. Horse Power as per Section 28 440 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted YesENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders Three No. of Cranks 3
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
as fitted 16" screw shaftIs 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'-5¼"Dia. of Tunnel shaft as per rule 13.48 as fitted 13¾" Dia. of Crank shaft journals as per rule 14.15 as fitted 14½" Dia. of Crank pin 14¾" Size of Crank webs 9½"x20½" Dia. of thrust shaft under
collars 14¾" Dia. of screw 17'-6" Pitch of Screw 19'-0" mean No. of Blades 4 State whether moveable Yes Total surface 100 sq. ft.
+ 268 at pin & journalNo. 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 Seven Sizes of Pumps Ballast 10"x11"x12" dupl. Weir's Feed 9½"x7"x24" tub. Gen. Serv. 7½"x5"x6" dupl. Donkey 5½"x5½"x9" Oil Transfer 10"x7"x10" In Holds, &c. No. 1, 3 + 4 Holds each two 3½"
In Engine Room Three 3½" One 3½" to tunnel well 2 Weir's Vels. Oil pumps 6x3½"x6 5 single No. 2 Hold Two 4"No. of Bilge Injections 1 sizes 9" Connected to condenser, or to circulating pump Cir. p. Is a separate Donkey Suction fitted in Engine room & 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 Eng. Rm.BOILERS, &c.—(Letter for record S.) Manufacturers of Steel Carnegie Stl. Co., Illinois Stl. Co., North Bros. Co.
2252x2+1132 (AUX. BLR) American Spiral Pipe Co., + Kawasaki Hyogo + Shikoku Wks.
Total Heating Surface of Boilers = 56360 Is Forced Draft fitted Yes No. and Description of Boilers Two S. Co. + Aux. S. Co.
Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test 24-8-20: 30-8-20 No. of Certificate 24-8-20: 30-8-20
AWR. LLOYD'S TEST No. 2Can each boiler be worked separately Yes Area of fire grate in each boiler 60½ sq. ft. No. and Description of Safety Valves to
each boiler 2 Spring Loaded Area of each valve 3¾" 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 1⅜" Range of tensile strength 26-78 to 32 lbs. Are the shell plates welded or flanged No Descrip. of riveting: cir. seams End Double
long. seams Double riveted Diameter of rivet holes in long. seams 1⅞" Pitch of rivets 9⅞"+4⅞" Lap of plates or width of butt straps 20½"+1⅜"Per centages of strength of longitudinal joint rivets 95.84 plate 84.28 Working pressure of shell by rules 212 lbs. Size of manhole in shell 16"x12"
Size of compensating ring (7⅞"+flange) 15⅞" No. and Description of Furnaces in each boiler 3 Morrison's Material Steel Outside diameter 48¼"
Length of plain part top ✓ Thickness of plates crown 2⅜" bottom 2⅜" Description of longitudinal joint Welded No. of strengthening rings ✓
Working pressure of furnace by the rules 221 lbs. Combustion chamber plates: Material Steel Thickness: Sides 1⅞" Back 1⅞" Top 1⅞" Bottom ⅞"Pitch of stays to ditto: Sides 8⅞"x8½" Back 8½"x9" Top 8½"x9⅞" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 203 lbs.
Material of stays Steel Area at smallest part 2.1 sq. ft. Area supported by each stay 8½"x9⅞" Working pressure by rules 230 lbs. End plates in steam space:
Material Steel Thickness 1⅞" Pitch of stays 9¾"x20½" How are stays secured? Double nuts + small washers Working pressure by rules 202 lbs. Material of stays Steel
Area at smallest part 10 sq. ft. Area supported by each stay 9¾"x20½" Working pressure by rules 260 lbs. Material of Front plates at bottom Steel
Thickness 1⅞" Material of Lower back plate Steel Thickness ¾" Greatest pitch of stays 13½" at wide water space Working pressure of plate by rules 232 lbs.
Diameter of tubes 34" Pitch of tubes 4⅞"x4⅞" Material of tube plates Steel Thickness: Front 1" Back 1⅞" Mean pitch of stays 8¾"Pitch across wide water spaces 13¾"+⅜" double Working pressures by rules 240 lbs. Girders to Chamber tops: Material Steel Depth and
thickness of girder at centre 10¼"+13⅞" (2) Length as per rule 34½" Distance apart 9⅞" Number and pitch of stays in each 3 @ 8½"
Working pressure by rules 220 lbs. Steam dome: description of joint to shell None % of strength of jointDiameter 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 stayedSUPERHEATER. Type Schmidt Date of Approval of Plan Tested by Hydraulic Pressure to 600 lbs.
Nº1 Nº2 9-11-20 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes
Diameter of Safety Valve 3" Pressure to which each is adjusted 210 lbs. Is Easing Gear fitted No

IS A DONKEY BOILER FITTED?

yes

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
Two Crank-pin bolts + nuts.	Set junk ring bolts + nuts.	shaft + nut.
Two Crosshead bolts + nuts.	Set of packing for each piston rods + Valve rods.	A.P. rod + nut.
Set coupling bolts + nuts.	Propeller shaft with nut.	3 Safety valve springs.
Set Feed + Bilge pump valves.	1 Feed Check valve + seat.	Cond. blr. tubes etc.
Assorted bolts, nuts + iron.	Slide valve spindle each size.	1 Set A.P. head valves.

The foregoing is a correct description,

Kawasaki Dockyard Co., Ltd.

Manufacturer.

Per 1919 1920 Secretary
Dates of Survey { During progress of work in shops -- Nov. 3, 22, 27; Jan. 2, 13, 28; Feb. 12, 21, 24, 27; Mar. 6, 9, 13, 16; Apr. 1, 6, 20, 26, 27, 29, 30; May 4, 8, 15, 18, 22, 29
while building { During erection on board vessel -- June 7, 9, 10, 11, 14, 24, 26; July 4, 16, 17, 19, 20, 22, 24, 28, 30, 31; Aug. 3, 11, 14, 20, 21, 24, 30; Sept. 1, 2, 6, 16, 18, 22; Oct. 1, 6, 18, 20, 24, 27; Nov. 2, 4, 6, 9, 17, 22; Dec. 6, 7, 17, 21; Jan. 1, 2, 27, 29; Feb. 2, 4, 7, 11.
Total No. of visits 80

Is the approved plan of main boiler forwarded herewith yes

AUXILIARY

Donkey

yes

yes

Dates of Examination of principal parts—Cylinders 4-11-20 Slides 6-12-20 Covers 6-12-20 Pistons 12-11-20 Rods 17-12-20
Connecting rods 20-10-20 Crank shaft 18-10-20 Thrust shaft 16-7-20 Tunnel shafts 16-10-20 Screw shaft 22-9-20 Propeller 16-9-20
Stern tube 27-10-20 Steam pipes tested 7-12-20 21-12-20 Engine and boiler seatings 6-11-20 Engines holding down bolts 25-1-20
Completion of pumping arrangements 27-1-21 Boilers fixed 25-1-21 Engines tried under steam 2-2-21 overhaul 4-2-21
Completion of fitting sea connections 6-11-20 Stern tube 2-11-20 Screw shaft and propeller 6-11-20
Main boiler safety valves adjusted 29-1-21 Thickness of adjusting washers Lock nuts.

Material of Crank shaft O.H.F.S. Identification Mark on Do. LLOYDS 18-10-20 A.W.B. Material of Thrust shaft O.H.F.S. Identification Mark on Do. LLOYDS 16-7-20 A.W.B.

Material of Tunnel shafts O.H.F.S. Identification Marks on Do. LLOYDS 16-10-20 A.W.B. Material of Screw shafts O.H.F.S. Identification Marks on Do. LLOYDS 22-9-20 A.W.B.

Material of Steam Pipes Solid drawn steel Test pressure 600 lbs. water. LLOYDS 22-9-20 A.W.B.

Is an installation fitted for burning oil fuel yes Is the flash point of the oil to be used over 150°F. yes

Have the requirements of Section 49 of the Rules been complied with yes

Is this machinery duplicate of a previous case yes If so, state name of vessel 3/5 ARGONNE (Kobe Rpt. No. 1941)

General Remarks (State quality of workmanship, opinions as to class, &c.) 3/5 WAR QUEEN (" " 2009)

3/5 EASTERN OCEAN (" " 2710)

3/5 PACIFIC MARU (" " 3034)

3/5 TYNE MARU (" " 3076)

3/5 ATLANTIC MARU (" " 3077)

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

The machinery worked satisfactorily on trial and Oil Fuel was used for Boilers.

The Oil Fuel Suction Piping from Settling Tank to Stockhold Pumps was tested to 50 lbs./sq. inch water pressure and the Pressure Piping from Pumps to Burners - to 250 lbs./sq. inch water.

The machinery of this vessel is eligible, it is submitted for the notation L.M.C. 2-21 and Fitted for Burning Oil Fuel 2-21 F.P. above 150 Fahr.

A Blue print of arrangement of Oil Fuel Piping and Shut-off Valves is sent herewith

The amount of Entry Fee ... Yen 45.- : Special ... £ 435.- : When applied for, Febr. 10th 1921
AUXILIARY Donkey Boiler Fee Included : ✓ : When received, Febr. 15th 1921
Travelling Expenses (if any) £ 20.-

Committee's Minute TUE. MAY. 10 1921

Assigned

+ L.M.C. 2.21

Fitted for oil fuel 2.21
F.P. above 150°F

A. Watt

Engineer Surveyor to Lloyd's Register of Shipping.



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