

REPORT ON MACHINERY.

Received at London Office

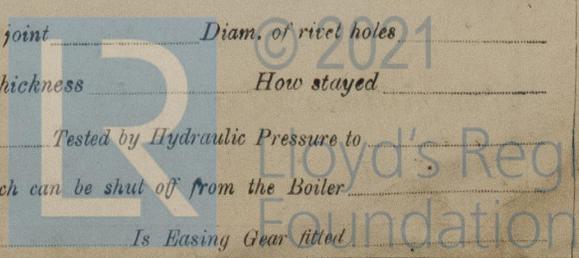
Date of writing Report 19 When handed in at Local Office 10 Port of Kobe

No. in Survey held at Kobe Date, First Survey 19th Sept. 1918 Last Survey 15th April 1919
 Reg. Book. on the Steel Single Screw Steamer "New York Maru" (Number of Visits) 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 440 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: 42 Length of Stroke 18 Revs. per minute 70 Dia. of Screw shaft as per rule 15.41 15.6 Material of Steel
 as fitted 16" screw shaft
 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 13.18 13.54 Dia. of Crank shaft journals as per rule 14.15 14.21 Dia. of Crank pin 14 3/8" Size of Crank webs 90 1/2 x 20 1/2
 as fitted 13 3/4 Dia. of Crank pin 14 3/8" Size of Crank webs 90 1/2 x 20 1/2 + 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 5" Stroke 21" 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 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. Weir's feed 9 1/2 x 7 x 2 1/4 two No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room Three 3 1/2 Gen. Serv. 7 1/2 x 5 x 6 dupl. In Holds, &c. Nos. 1, 3 + 1 holds each two 3 1/2
 and One 3 1/2 to tunnel Well 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 5.) Manufacturers of Steel Union Steel, Worth Bros, Amer. Spiral Pipe Wks.
 2304.8 x 2 + 1132 Airc. Blr.
 Total Heating Surface of Boilers = 5741 Is Forced Draft fitted Yes No. and Description of Boilers Two 5. 6 + Airc. 5. 6.
 Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test 15th & 18th Jan 1919 No. of Certificate 1190'S TEST 400 LBS 15-1-19 & 18-1-19 R
 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 95.84 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 1/2"
 Length of plain part top ✓ Thickness of plates crown 2 1/32" Description of longitudinal joint Weld Suspension No. of strengthening rings ✓
 bottom ✓ Working pressure of furnace by the rules 221 Combustion chamber plates: Material Steel Thickness: Sides 1/16" Back 1/16" Top 1/16" Bottom 1/8"
 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 205 lbs.
 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 19 3/4 x 20 1/2 How are stays secured Doub. nuts + small washers Working pressure by rules 201 lbs. Material of stays Steel
 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 13/16" Mean pitch of stays 8 3/4"
 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 + 13/16 (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

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? *Aw. Bls. 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 + Crank pin brasses A.P. rod.
 Two Crosshead bolts + nuts One part Crank shaft. nut. 3 Safety valve springs.
 Set Coupling bolts + nuts Propeller shaft Cond. + Bls. 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 *M. Nakajima* Secretary. Manufacturer.

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 Material of Thrust shaft Steel Identification Mark on Do. LLOYD'S 10.1.19
 Material of Tunnel shafts Steel Identification Marks on Do. LLOYD'S 24/10/18 13/2/19 Material of Screw shafts Steel Identification Marks on Do. LLOYD'S 21.2.19
 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. Lower
 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. water (24)
 San Francisco Man (2496). girder

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.

AWD *Reh.* 8.7.19
J.M.

A. L. Jones

Engineer Surveyor to Lloyd's Register of Shipping.

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

Committee's Minute FRI. 11 JUL. 1919

Assigned + L.M.C. 4.19
 MACHINERY CERTIFICATE WRITTEN. *F.D.*



Certificate (if required) to be sent to

The Surveyors are requested not to write on or below the space for Committee's Minute.