

Rpt. 4.

REPORT ON MACHINERY.

No. 2647.

Date of writing Report Nov 14th 1919 When handed in at Local OfficePort of Kobe

FRI 2 JAN 1920

No. in Survey held at KobeDate, First Survey June 13thLast Survey Nov 3rd 1919

Reg. Book.

on the Steel Single Screw Steamer "France Maru"(Number of Visits 47)Gross 5863Master T. OKI.Built at KobeBy whom built Kawasaki Dockyard Co. Ltd.When built 1919Engines made at KobeBy whom made Kawasaki Dockyard Co. Ltd.when made 1919Boilers made at doBy whom made dowhen made 1919

Registered Horse Power

437Owners Kawasaki Kisen Kabushiki KaishaPort belonging to KobeNom. Horse Power as per Section 28 110Is Refrigerating Machinery fitted for cargo purposes noIs Electric Light fitted yesENGINES, &c.—Description of Engines Triple ExpansionNo. of Cylinders Three No. of Cranks ThreeDia. of Cylinders 26: 13 1/2: 7 1/2 Length of Stroke 18" Revs. per minute 70Dia. of Screw shaft as per rule 15 1/4 as fitted 16" Material of screw shaft SteelIs 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 1/8 as fitted 13 3/4 Dia. of Crank shaft journals as per rule 14 1/8 as fitted 14 3/8 Dia. of Crank pin 14 3/4 Size of Crank webs 9 1/2 x 20 1/2 Dia. of thrust shaft under collars 14 3/8 Dia. of screw 17 1/2 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 2 1/2" 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 2 1/2" Can one be overhauled while the other is at work yesNo. of Donkey Engines Three Sizes of Pumps Bal. 10' x 11' x 12' Dup Weir's feed 9 1/2 x 7 x 24 No. and size of Suctions connected to both Bilge and Donkey pumpsIn Engine Room Three 3 1/2 One 3 1/2 to tunnel Well In Holds, &c. No. 1, 3 + 1 Hold each two 3 1/2" No. 2 Hold. two 4"No. of Bilge Injections 1 sizes 9 Connected to condenser, or to circulating pump cr. p. 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 noneAre all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks Larger Valves, Smaller CocksAre 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 aboveAre 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 yesWhat 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 yesAre the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yesIs the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from Up platform of E. R.BOILERS, &c.—(Letter for record S) Manufacturers of Steel Illinois Steel Co., Carnegie Steel Co., American Spiral Pipe Co. (Furnaces) 2 SB. & 1 Aux SB.Total Heating Surface of Boilers 5636 Is Forced Draft fitted yes No. and Description of Boilers Two 5.6 + Aux 5.6Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test 5-9-19 12-9-19 No. of Certificate NEI. LLOYD'S TEST 400 LBS. 200 LBS. WLRCan 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 yesSmallest distance between boilers or uptakes and bunkers or woodwork 12" Mean dia. of boilers 14' 6" Length 12' 0" Material of shell plates steelThickness 1 3/8" Range of tensile strength 26-78 to 32 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams Ends Doub.long. seams Double rivets Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 9 1/8 + 1 9/16 Lap of plates or width of butt straps 20 1/8 + 1 3/8"Per centages of strength of longitudinal joint 84.28 Working pressure of shell by rules 200 lbs. Size of manhole in shell 16" x 12"Size of compensating ring (1 1/2 + flange) 1 1/6 No. and Description of Furnaces in each boiler 3 Morrison's Material steel Outside diameter 18 1/4"Length of plain part top 2 1/2 Thickness of plates bottom 2 1/2 Description of longitudinal joint Weld No. of strengthening rings ✓Working pressure of furnace by the rules 221 Combustion chamber plates: Material steel Thickness: Sides 1 1/16 Back 1 1/16 Top 1 1/16 Bottom 7/8Pitch of stays to ditto: Sides 8 5/8 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 203 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 1/4 x 20 1/2 How are stays secured Doub. nuts Working pressure by rules 201 lbs. Material of stays steelArea at smallest part 10" Area supported by each stay 19 1/4 x 20 1/2 Working pressure by rules 260 lbs. Material of Front plates at bottom steelThickness 1 3/16 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 17 1/16 x 1 5/16 Material of tube plates steel Thickness: Front 1" Back 1 1/16 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 + 1 3/16 (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 100Diameter 10 3/4 Thickness of shell plates 1 3/16 Material steel Description of longitudinal joint Weld Diam. of rivet holes 1 1/16Pitch of rivets 1 1/16 Working pressure of shell by rules 210 lbs. Crown plates 1 1/16 Thickness 1 1/16 How stayed by staysSUPERHEATER. Type Horizontal Date of Approval of Plan 5-9-19 Tested by Hydraulic Pressure to 210 lbs.Date of Test 5-9-19 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler yesDiameter of Safety Valve 1 1/2 Pressure to which each is adjusted 210 lbs. Is Easing Gear fitted yes

W1319-0213

IS A DONKEY BOILER FITTED? Aux. Bhr. 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
Two Crank pin " " Set junk ring bolts + nuts. Impeller Shaft
Two Crosshead " " One part Crank Shaft. Crosshead + Crank
Set coupling " " Propeller Shaft. A.B. rod + nut.
Set Feed + Bilge pump valves Four blades + 2 sets studs + nuts 3 Safety Valves Spru
Assorted bolts + nuts + iron Slide valve spindle each size Cond. + Bhr. tubes etc

The foregoing is a correct description.

Kawasaki Dockyard Co., Ltd.

Per

Secretary

Manufacturer.

1919
Dates of Survey { During progress of work in shops - - June 13, 25, 26; July 2, 10, 15, 16, 21, 23, 24, 28, 31; Aug. 4, 6, 8, 11, 13, 14, 16, 18, 19, 22, 23, 25, 26, 28, 30.
while building { During erection on board vessel - - Sept. 1, 3, 5, 6, 10, 11, 15, 17, 19; Oct. 2, 3, 6, 7, 22, 23, 24, 25, 27, 29.
Total No. of visits 44

Is the approved plan of main boiler forwarded herewith No San

Dates of Examination of principal parts—Cylinders 18-8-19 Slides 3-10-19 Covers 11-9-19 Pistons 11-9-19 Rods 19-9-19

Connecting rods 17-9-19 Crank shaft 28-8-19 Thrust shaft 28-8-19 Tunnel shafts 28-8-19 Screw shaft 6-9-19 Propeller 15-9-19

Stern tube 6-9-19 Steam pipes tested 10-9-19 Engine and boiler seatings 17-9-19 Engines holding down bolts 24-10-19

Completion of pumping arrangements 24-10-19 Boilers fixed 24-10-19 Engines tried under steam 26-10-19 Overhaul 27-10-19

Completion of fitting sea connections 15-9-19 Stern tube 15-9-19 Screw shaft and propeller 4-10-19

Main boiler safety valves adjusted 23-10-19 Thickness of adjusting washers Locknuts (Sealed by Government Inspector)

Material of Crank shaft Steel Identification Mark on Do. 28-8-19 Material of Thrust shaft Steel Identification Mark on Do. 28-8-19

Material of Tunnel shafts Steel Identification Marks on Do. 28-8-19 Material of Screw shafts Steel Identification Marks on Do. 28-8-19

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.

Have the requirements of Section 49 of the Rules been complied with ✓ S.S. War Prince Rpt. No. 203

Is this machinery duplicate of a previous case If so, state name of vessel S.S. Naples Maru " 258

General Remarks (State quality of workmanship, opinions as to class, &c.) S.S. Port Said Maru " 258

S.S. Scotland Maru " 263

S.S. Italy Maru " 263

The Machinery of this Vessel has been made + fitted under Special Survey in accordance with the requirements of the Rules + the Workmanship are good.

The Vessel is eligible in my opinion for the notation

⬤ LMC 10-19

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 10/19 F.D.

2 S.B. 1 Aux. S.B. F.D. 11/19

5/1/20

JWR

The amount of Entry Fee .Yers 30.- :
Special ... £ 435.- :
Auxiliary Boiler Fee included :
Travelling Expenses (if any) £ 15.- :
When applied for, Nov 7th 1919
When received, Nov 13th 1919

a Watt

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE JAN 6 - 1920

Assigned

+ LMC 10, 19 F.D.

MACHINERY CERTIFICATE
NOTED.



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Foundation