

REPORT ON MACHINERY.

No. 2721.

Date of writing Report Feb 12th 1920 When handed in at Local Office 19 Port of Kobe
 No. in Survey held at Kobe Date, First Survey Aug. 13th 1919 Last Survey Jan. 26th 1920
 Reg. Book. on the Steel Single Screw Steamer "HOLLAND MARU" (Number of Visits 47)
 Master M. KINOSHITA Built at Kobe By whom built Kawasaki Dockyard Co. Ltd. Gross 5869.86
 Engines made at Kobe By whom made Kawasaki Dockyard Co. Ltd. Net 4268.26
 Boilers made at do By whom made do When built 1920
 Registered Horse Power 440 Owners The Kawasaki Kisen 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 3
 Dia. of Cylinders 26: 43½: 72 Length of Stroke 48" Revs. per minute 70 Dia. of Screw shaft 15.41 Material of Steel
 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' - 5¼"
 Dia. of Tunnel shaft 13.48 as per rule 13.48 Dia. of Crank shaft journals 14.15 as per rule 14.15 Dia. of Crank pin 14¾" Size of Crank webs 9½" x 20" 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.
 No. 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 Three Sizes of Pumps Weir's Feed 9½" x 7" x 24" two
 In Engine Room Three 3½" Ballast 10" x 11" x 12" dupl. No. and size of Suctions connected to both Bilge and Donkey pumps
One 3½" to tunnel well Donkey 5½" x 3½" x 9" dupl. Holds, &c. No. 1, 3 + 4 Hold each two 3½"
No. 2 Hold two 4"
 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 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 Up. platform of Eng. Rm

MANUFACTURERS, &c.—(Letter for record S.) Manufacturers of Steel Illinois Steel Co., Carnegie Steel Co., Ames Steel Co.
2304-5 (2252 x 2 + 1132 (Aux. Blr.)) (Furnaces)
 Total Heating Surface of Boilers 56360 Is Forced Draft fitted Yes No. and Description of Boilers Two S. & Aux. S. &
 Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test 27-11-19, 1-12-19 No. of Certificate 27-11-19
 Can each boiler be worked separately Yes Area of fire grate in each boiler 60½ sq. ft. No. and Description of Safety Valves to 27-11-19
 on each boiler Two 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 1½" Range of tensile strength 2678 to 32600 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams Ends Doub.
 Rivet seams Double straps Diameter of rivet holes in long. seams 1⅜" Pitch of rivets 8¾" + 4⅜" Lap of plates or width of butt straps 19½" x 1¼"
 Percentages of strength of longitudinal joint 95.84 Working pressure of shell by rules 201 lbs. Size of manhole in shell 16" x 12"
 Size of compensating ring (1½" + flange) 1⅜" No. and Description of Furnaces in each boiler 3 Morrison's Material Steel Outside diameter 48¼"
 Length of plain part top bottom ✓ Thickness of plates 2/32 Description of longitudinal joint Weld No. of strengthening rings ✓
 Working pressure of furnace by the rules 221 lbs. Combustion chamber plates: Material Steel Thickness: Sides 1½" Back 1½" Top 1½" Bottom 7/8"
 Pitch of stays to ditto: Sides 8½" x 8½" Back 8½" x 9" Top 8½" x 9½" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 203 lbs.
 Material of stays Steel Area at smallest part 2.10" Area supported by each stay 8½" x 9½" Working pressure by rules 230 lbs. End plates in steam space:
 Material Steel Thickness 1½" Pitch of stays 19¾" x 20½" How are stays secured Doub. nuts Working pressure by rules 202 lbs. Material of stays Steel
 Area at smallest part 10" Area supported by each stay 19¾" x 20½" 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 13½" at wide Working pressure of plate by rules 232 lbs.
 Diameter of tubes 3¼" Pitch of tubes 4½" x 4½" Material of tube plates Steel Thickness: Front 1" Back 13/16" Mean pitch of stays 8¾"
 Pitch across wide water spaces 13¾" + 5/8" Working pressures by rules 240 lbs. Girders to Chamber tops: Material Steel Depth and
 Thickness of girder at centre 10¾" + 13/16" (2) Length as per rule 34½" Distance apart 9¾" 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 joint ✓
 Material ✓ 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 ✓
 Material of Safety Valve ✓ Pressure to which each is adjusted ✓ Is Easing Gear fitted ✓

L100-626600-126600

11/4/20

yes

SPARE GEAR. State the articles supplied :-

Four Main bearing bolts + nuts.	Set packing rings + springs each piston.
Two Crank pin bolts + nuts	Set junk ring bolts + nuts
Two Crosshead bolts + nuts	1 Set of packing for each piston rods + Val
Set Coupling bolts + nuts.	Propeller Shaft with nut
Set Feed + Bilge pump valves.	1 Feed Check valve + Seat.
Assorted bolts, nuts + iron.	Slide valve spindle each size.

P684
LLOYD
10-12-
WLB

Centrifugal pump
impeller + shaft + nut
A.P. rod + nut.
3 Safety valve spring
Cond. + Blr. tubes etc
1 Set A.P. Head valve

Kawasaki Dockyard Co., Ltd.

Per:

~~Secretary.~~

Manufacturer.

Dates of Survey while building	{	During progress of work in shops - -	{	1919 Aug. 13, 25; Sept. 10, 11; Oct. 7, 8, 11, 14, 15, 18, 20, 22, 27, 28	Is the appro
		During erection on board vessel - - -		1920 Dec. 1, 2, 4, 8, 10, 11, 12, 17, 27; Jan. 7, 12, 17, 20, 22, 23, 26	
		Total No. of visits		47	

Is the approved plan of main boiler forwarded herewith

Auscy

(Total No. of visits) _____

Dates of Examination of principal parts—Cylinders 11-11-19 Slides 10-12-19 Covers 29-11-19 Pistons 18-11-19 Rods 8-12-19

Connecting rods 18-11-19 Crank shaft 4-11-19 Thrust shaft 13-11-19 Tunnel shafts 17-11-19 Screw shaft 30-10-19 Propeller 24-11-19

Stern tube 18-11-19 Steam pipes tested 20-11-19 Engine and boiler seatings 4-12-19 Engines holding down bolts 27-12-19

Completion of pumping arrangements 20-1-20 Boilers fixed 27-12-19 Engines tried under steam 22-1-20 Overhaul 23-1-20

Completion of fitting sea connections 1-12-19 Stern tube 20-11-19 Screw shaft and propeller 26-11-19

Main boiler safety valves adjusted 27-12-19 Thickness of adjusting washers Locknuts (Seals) by Government Survey

Material of Crank shaft $\frac{3}{4}$ Steel Identification Mark on Do. $\frac{4-11-19}{LLOYDS}$ Material of Thrust shaft $\frac{3}{4}$ Steel Identification Mark on Do. $\frac{4-11-19}{LLOYDS}$

Material of Tunnel shafts $\frac{3}{4}$ Steel Identification Marks on Do. $\frac{4-11-19}{LLOYDS}$ Material of Screw shafts $\frac{3}{4}$ Steel Identification Marks on Do. $\frac{4-11-19}{LLOYDS}$

Material of Steam Pipes S. D. 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 Yes

Is this machinery duplicate of a previous case Yes If so, state name of vessel _____

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

	Rpt. No.	No.
S.S. WAR QUEEN	✓	25
S.S. NAPLES MARU	✓	25
S.S. PORTSAID MARU	✓	25
S.S. ITALY MARU	✓	26
S.S. FRANCE MARU	✓	26
S.S. ENGLAND MARU	✓	26
S.S. SPAIN MARU	✓	26
S.S. DENMARK MARU	✓	27

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

 L.M.C 1-20.

It is submitted that
this vessel is eligible for
THE RECORD + L.M.C. 1-20.F.D.

2 S.B. & 1 Aux: S.B.

2007年

The amount of Entry Fee	...	Yen. 30. ⁰⁰	}	When applied for,	
Special	...	" 735. ⁰⁰		Jan 28 th 1920	
Amey Donkey Boiler Fee	...	Incl ^d .	}	When received,	
Travelling Expenses (if any)	...	15. ⁰⁰		Feb 2 nd 1920	

FRI. APR 9 1920

Committee's Minute

Assigned

4 LMC 1.20 7.D.

CERTIFICATE WRITTEN

Alexander Watt

Engineer Surveyor to Lloyd's Register of Shipping

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Foundation