

REPORT ON MACHINERY.

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Date of writing Report 15 When handed in at Local Office 10 Port of Kobe
 No. in Survey held at Kobe Date, First Survey 11th Sept Last Survey 30th March 1920
 Reg. Book. on the Steel Single Screw Steamer "Jamarang Maru" (Number of Vents 3909.26)
 Master Morita Built at Kobe By whom built Mitsui Bishi Iroen Kaisha When built 1920
 Engines made at Kobe By whom made Mitsui Bishi Iroen Kaisha when made 1920
 Boilers made at Kobe By whom made " when made 1920
 Registered Horse Power 246 Owners Nanyo Yusen Kaisha Port belonging to Kobe
 Nom. Horse Power as per Section 28 246 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 23, 38, 64 Length of Stroke 48 Revs. per minute 13.116 Dia. of Screw shaft 15 Material of screw shaft 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 Yes
 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 5-2/8 (white metal)
 Dia. of Tunnel shaft 12-4/8 Dia. of Crank shaft journals 13-1/2 Dia. of Crank pin 14 Size of Crank webs 25x8-3/4 Dia. of thrust shaft under collars 13-1/2 Dia. of screw 17-7 Pitch of Screw 17-2-1/2 No. of Blades 4 State whether moveable Yes Total surface 76 sq. ft.
 No. of Feed pumps 2 Diameter of ditto 4-1/2 Stroke 24 Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 2 Diameter of ditto 4-1/2 Stroke 24 Can one be overhauled while the other is at work Yes
 No. of Donkey Engines 3 @ 3-1/2 Sizes of Pumps 2 sets 8x6x21 No. and size of Suctions connected to both Bilge and Donkey pumps 2 @ 3-1/2 in each nos 1, 2, 3, 4 holds
 In Engine Room 3 @ 3-1/2 In Holds, &c. 2 @ 3-1/2 in each nos 1, 2, 3, 4 holds
 No. of Bilge Injections 1 size 7/8 Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size Yes 4-1/2
 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 Yes
 Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Large valves, smaller, cocks
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stowhold 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 ✓ 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
 Dates of examination of completion of fitting of Sea Connections Feb 20 of Stern Tube Feb 10 Screw shaft and Propeller Feb 21
 Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from R.R. top platform

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Kure, Naval Arsenal
 Total Heating Surface of Boilers 2197.1 Is Forced Draft fitted Yes No. and Description of Boilers Two Single ended
 Working Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test 13th Feb No. of Certificate LLOYD'S TEST. 400 LBS. 13-7-20 R
 Can each boiler be worked separately Yes Area of fire grate in each boiler 54.312 sq. ft. No. and Description of Safety Valves to each boiler Two Spring loaded Area of each valve 19.24 Pressure to which they are adjusted 200 lbs Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork ✓ Mean dia. of boilers 14'-0" Length 11'-6" Material of shell plates Steel
 Thickness 15/16 Range of tensile strength 28-32 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams DRL
 long. seams TRDBS Diameter of rivet holes in long. seams 1-3/8 Pitch of rivets 9-1/2 Top of plates or width of butt straps 20-1/2
 Per centages of strength of longitudinal joint: rivets 88.6 Working pressure of shell by rules 220 lbs Size of manhole in shell 12x16
 Size of compensating ring 37x33x1-1/2 No. and Description of Furnaces in each boiler Three Morrison Material Steel Outside diameter 45-1/4
 Length of plain part ✓ Thickness of plates 8 Description of longitudinal joint weld No. of strengthening rings ✓
 Working pressure of furnace by the rules 222 Combustion chamber plates: Material Steel Thickness: Sides 3/4 Back 3/4 Top 3/4 Bottom 15/16
 Pitch of stays to ditto: Sides 8x11 Back 9x10 Top 7x9 Are stays fitted with nuts or riveted heads nuts Working pressure by rules 211
 Material of stays Steel Diameter at smallest part 2-3/8 Area supported by each stay 91.125 Working pressure by rules 233 End plates in steam space: Material Steel Thickness 1-9/32 Pitch of stays 20x18 How are stays secured DN + W Working pressure by rules 214 lbs Material of stays Steel
 Diameter of smallest part 3-1/8 Area supported by each stay 20x18 Working pressure by rules 221 Material of Front plates at bottom Steel
 Thickness 3/32 Material of Lower back plate Steel Thickness 3/32 Greatest pitch of stays 11-1/4 x 11 Working pressure of plate by rules 259
 Diameter of tubes 3-1/4 Pitch of tubes 4-1/2 x 4-3/8 Material of tube plates Steel Thickness: Front 3/32 Back 27/32 Mean pitch of stays 13-1/2 x 8-3/4
 Pitch across wide water spaces 13-3/4 Working pressures by rules 200 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 10-1/4 x 1-3/4 Length as per rule 2'-7-29/32 Distance apart 9-3/4 Number and pitch of stays in each 3 @ 7"
 Working pressure by rules Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked separately ✓
 Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
 Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness Are they fitted with easing gear
 If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed Lloyd's Register Foundation
 Working pressure of end plates Area of safety valves to superheater

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