

REPORT ON MACHINERY.

No. 24540

Port of Sunderland.

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No. in Survey held at Sunderland. Date, first Survey Apr. 1 Last Survey Sep 26th 1910Reg. Book. 516 on the Steel saw steamer "Kora"(Number of Visits 25)Master Lazen Built at Antwerp By whom built Antwerp S. & Eng. Co. (Belg.) Tons { Gross 757.77
Net 538Engines made at Sunderland By whom made N. E. & N. Eng. Co. Ltd. when made 1910Boilers made at " By whom made " when made 1910Registered Horse Power 82 Owners Dampskibsselsk. Vestehavet Port belonging to OsbyergNom. Horse Power as per Section 28 82 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted ✓

ENGINES, &c.—Description of Engines

No. of Cylinders 3 No. of Cranks 3Dia. of Cylinders 13 21 35 Length of Stroke 24 Revs. per minute 99 Dia. of Screw shaft 8 26 as per rule 8 26 Material of S as fitted 8 26 screw shaftIs the screw shaft fitted with a continuous liner the whole length of the stern tube no Is the after end of the liner made water tightin 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 partbetween the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive ✓ If twoliners are fitted, is the shaft lapped or protected between the liners Hawley & Milne's patent Length of stern bush ✓Dia. of Tunnel shaft 6 76 677 as per rule 6 76 677 Dia. of Crank shaft journals 4 1 as per rule 4 1 Dia. of Crank pin 7 4 Size of Crank webs 10 5 4 8 Dia. of thrust shaft undercollars 7 4 Dia. of screw 10 6 Pitch of Screw 10 6 No. of Blades 4 State whether moveable S Total surface 34 2 6No. of Feed pumps 2 Diameter of ditto 2 4 Stroke 1 3 Can one be overhauled while the other is at work yesNo. of Bilge pumps 2 Diameter of ditto 2 4 Stroke 1 3 Can one be overhauled while the other is at work yesNo. of Donkey Engines two Sizes of Pumps 6 x 5 4 x 6 4 2 x 2 3 x 4 No. and size of Suctions connected to both Bilge and Donkey pumpsIn Engine Room 3 4 2 In Holds, &c. four of 2No. of Bilge Injections 1 sizes 3 Connected to condenser, or to circulating pump CP Is a separate Donkey Suction fitted in Engine room & size 2 4 diaAre 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 ✓Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks Valves & 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 yesDates of examination of completion of fitting of Sea Connections Aug 26th of Stern Tube Aug 26th Screw shaft and Propeller Aug 26thIs the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from Patnam above main deckBOILERS, &c.—(Letter for record 1458 Manufacturers of Steel Spencer & Sons Ltd)Total Heating Surface of Boilers 8 Is Forced Draft fitted no No. and Description of Boilers 2 S.E.Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 6. 6. 10 No. of Certificate 2836Can each boiler be worked separately yes Area of fire grate in each boiler 20 3 4 No. and Description of Safety Valves toeach boiler 2 Spring Area of each valve 3 1 4 Pressure to which they are adjusted 185 lbs Are they fitted with easing gear yesSmallest distance between boilers or uptakes and bunkers or woodwork 18 Mean dia. of boilers 9 4 6 Length 9 ft Material of shell plates SThickness 25 Range of tensile strength 28 3 4 - 32 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams 2 1 laplong. seams at butt Diameter of rivet holes in long. seams 1 Pitch of rivets 7 Lap of plates or width of butt straps 1 4 2Per centages of strength of longitudinal joint 85 46 Working pressure of shell by rules 180 4 Size of manhole in shell 16 x 12Size of compensating ring Flanged No. and Description of Furnaces in each boiler 2 Bay Material S Outside diameter 2 8 2Length of plain part top Thickness of plates bottom 7 16 Description of longitudinal joint weld No. of strengthening rings ✓Working pressure of furnace by the rules 184 Combustion chamber plates: Material S Thickness: Sides 3 4 Back 25 Top 3 4 Bottom 3 4Pitch of stays to ditto: Sides 12 5 x 7 2 Back 11 x 10 5 Top 12 5 x 7 2 If stays are fitted with nuts or riveted heads nut Working pressure by rules 199Material of stays S Diameter at smallest part 2 5 Area supported by each stay 11 4 Working pressure by rules 186 End plates in steam space:Material S Thickness 7 6 Pitch of stays 14 3 x 12 How are stays secured 2 nut Working pressure by rules 181 Material of stays SDiameter at smallest part 4 11 Area supported by each stay 2 13 Working pressure by rules 200 Material of Front plates at bottom SThickness 16 Material of Lower back plate S Thickness 16 Greatest pitch of stays 14 2 x 10 5 Working pressure of plate by rules 188Diameter of tubes 3 4 Pitch of tubes 4 2 x 4 1 6 Material of tube plates S Thickness: Front 16 Back 3 4 Mean pitch of stays 10 8Pitch across wide water spaces 14 Working pressures by rules 183 Girders to Chamber tops: Material S Depth andthickness of girder at centre 7 5 x 20 16 Length as per rule 26 2 Distance apart 12 8 Number and pitch of stays in each 2 @ 9 2 7 2Working pressure by rules 183 Superheater or Steam chest; how connected to boiler ✓ Can the superheater be shut off and the boiler workedseparately ✓ Diameter ✓ Length ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivetholes ✓ Pitch of rivets ✓ Working pressure of shell by rules ✓ Diameter of flue ✓ Material of flue plates ✓ Thickness ✓If stiffened with rings ✓ Distance between rings ✓ Working pressure by rules ✓ End plates: Thickness ✓ How stayed ✓Working pressure of end plates ✓ Area of safety valves to superheater ✓ Are they fitted with easing gear ✓

W811-0086

Manufacturers of Steel

NORTH EASTERN MARINE ENGINEERING CO. LTD.

Manufacturers 1/2 Main Engines & Boilers

Is the approved plan of main boiler forwarded herewith duplicate

“ ” ” *donkey* ” ” ”

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 9.10

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

Assigned

Lloyd's Register
Foundation