

Rpt. 4.

REPORT ON MACHINERY.

No. 10773

Received at London Office

THU. 10 APR. 1919

Date of writing Report 21 March 1919 When handed in at Local Office 1919 Port of Rotterdam
 No. in Survey held at Rotterdam Date, First Survey Jan 21-1918 Last Survey March 14 1919
 Reg. Book. on the Yard no. 88 S.S. Eigenhulp VII (Number of Visits 53) Tons { Gross 1908.14
 Net 1144.17
 Master Wm. Wiltens by Agent Built at Rotterdam By whom built Wm. Wiltens by Agent When built 1918-1919
 Engines made at Rotterdam By whom made Do when made 1919
 Boilers made at Do By whom made Do when made 1919
 Registered Horse Power 184 Owners Wm. Wiltens by Agent Port belonging to Rotterdam
 Is Electric Light fitted Do
 Nom. Horse Power as per Section 28 184 Is Refrigerating Machinery fitted for cargo purposes Do

ENGINES, &c.—Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 14 x 22 x 51 Length of Stroke 36 Revs. per minute 82 Dia. of Screw shaft 11 5/16 Material of screw shaft Steel
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube Yes 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 Yes 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 Yes If two
 liners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 3' 11 1/2"
 Dia. of Tunnel shaft 10 1/2" Dia. of Crank shaft journals 10 1/4" Dia. of Crank pin 10 1/4" Size of Crank webs 6 1/2" x 15" Dia. of thrust shaft under
 collars 10 1/2" Dia. of screw 14 1/2" Pitch of Screw 15-0 No. of Blades 4 State whether moseable Yes Total surface 550
 No. of Feed pumps 2 Diameter of ditto 3 1/2" Stroke 18" Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 2 Diameter of ditto 3 1/2" Stroke 18" Can one be overhauled while the other is at work Yes
 No. of Donkey Engines Two Sizes of Pumps Feed donkey 8 1/2" x 10" x 10" No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 4 Suctions of 2 1/4" In Holds, &c. 1 hold 2 Suctions 2 1/4" of 1 hold
 No. of Bilge Injections 5 Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size 1 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 Both
 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 Both
 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 None
 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 Main Deck

BOILERS, &c.—(Letter for record) Manufacturers of Steel Mannesmann Rube Works Ltd. Southey, S.S.B.
 Total Heating Surface of Boilers 3120 Is Forced Draft fitted No No. and Description of Boilers 2 horizontal marine boilers
 Working Pressure 180 lbs per sq. in. Tested by hydraulic pressure to 240 lbs Date of test 26.10.18 No. of Certificate 460
 Can each boiler be worked separately Yes Area of fire grate in each boiler 50 No. and Description of Safety Valves to
 each boiler 2 of 3 1/4" Spring loaded Area of each valve 11 1/2" Pressure to which they are adjusted 180 lbs Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 24" Mean dia. of boilers 15-6" Length 10-6" Material of shell plates Steel
 Thickness 1 1/8" Range of tensile strength 24-35 tons Are the shell plates welded or flanged No Descrip. of riveting: cr. seams
 long. seams all butt Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 8 1/8" Lap of plates or width of butt straps 1 1/2"
 Per centages of strength of longitudinal joint 85-4% Working pressure of shell by rules 192 lbs Size of manhole in shell 18" x 16"
 Size of compensating ring 9" x 1 1/8" No. and Description of Furnaces in each boiler 3. Mowlem Material Steel Outside diameter 3'-5 1/2"
 Length of plain part 4' Thickness of plates 1 1/8" Description of longitudinal joint Welded No. of strengthening rings 2
 Working pressure of furnace by the rules 192 lbs Combustion chamber plates: Material Steel Thickness: Sides 1 1/8" Back 1 1/8" Top 1 1/8" Bottom 1 1/8"
 Pitch of stays to ditto: Sides 4 1/2" x 8" Back 4 1/2" x 8" Top 4 1/2" x 10" If stays are fitted with nuts or riveted heads riveted, neither Working pressure by rules 185 lbs End plates in steam space:
 Material of stays Steel Area at smallest part 1.48 sq. ft. Area supported by each stay 1.27 sq. ft. Working pressure by rules 185 lbs Material of stays Steel
 Material Steel Thickness 1 1/4" Pitch of stays 16" x 20" How are stays secured riveted, neither Working pressure by rules 185 lbs Material of stays Steel
 Area at smallest part 5.94 sq. ft. Area supported by each stay 3.28 sq. ft. Working pressure by rules 185 lbs Material of Front plates at bottom Steel
 Thickness 1 1/4" Material of Lower back plate Steel Thickness 1 1/8" Greatest pitch of stays 14 1/2" Working pressure of plate by rules 205 lbs
 Diameter of tubes 4 1/2" Pitch of tubes 4 1/2" x 4 1/2" Material of tube plates Steel Thickness: Front 1 1/8" Back 1 1/8" Mean pitch of stays 11 1/2"
 Pitch across wide water spaces 14 1/2" Working pressures by rules 221 lbs Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 9" x 27" x 1/2" Length as per rule 2'-4 1/2" Distance apart 10" Number and pitch of stays in each 20' x 1/2"
 Working pressure by rules 198 lbs Steam dome: description of joint to shell none % of strength of joint 100
 Diameter 10" Thickness of shell plates 1 1/8" Material Steel Description of longitudinal joint none Diam. of rivet holes 1 1/8"
 Pitch of rivets 8" Working pressure of shell by rules 198 lbs Crown plates none Thickness 1 1/8" How stayed none
 Tested by Hydraulic Pressure to 240 lbs

SUPERHEATER. Type none Date of Approval of Plan none Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes
 Date of Test none Is Easing Gear fitted Yes
 Diameter of Safety Valve none Pressure to which each is adjusted none

002477-002484-0130



IS A DONKEY BOILER FITTED? *None*

If so, is a report now forwarded? *✓*

SPARE GEAR. State the articles supplied:—

2 top end bolts and nuts, 2 bottom end bolts and nuts, 2 main beam bolts, 1 set of coupling bolts, 1 set of feet and bilge pump valves, 1 set of piston springs, 2 quantity of assorted bolts and nuts. Iron of various sizes. Propeller

The foregoing is a correct description,

WILTON'S ENGINEERING & SLIPWAY CO.

B. Wilton

Manufacturer.

Dates of Survey while building: During progress of work in shops -- *24/12, 26/12, 28/12, 30/12, 1/1, 3/1, 5/1, 7/1, 9/1, 11/1, 13/1, 15/1, 17/1, 19/1, 21/1, 23/1, 25/1, 27/1, 29/1, 31/1, 2/2, 4/2, 6/2, 8/2, 10/2, 12/2, 14/2, 16/2, 18/2, 20/2, 22/2, 24/2, 26/2, 28/2, 30/2, 1/3, 3/3, 5/3, 7/3, 9/3, 11/3, 13/3, 15/3, 17/3, 19/3, 21/3, 23/3, 25/3, 27/3, 29/3, 31/3, 2/4, 4/4, 6/4, 8/4, 10/4, 12/4, 14/4, 16/4, 18/4, 20/4, 22/4, 24/4, 26/4, 28/4, 30/4, 1/5, 3/5, 5/5, 7/5, 9/5, 11/5, 13/5, 15/5, 17/5, 19/5, 21/5, 23/5, 25/5, 27/5, 29/5, 31/5, 1/6, 3/6, 5/6, 7/6, 9/6, 11/6, 13/6, 15/6, 17/6, 19/6, 21/6, 23/6, 25/6, 27/6, 29/6, 31/6, 1/7, 3/7, 5/7, 7/7, 9/7, 11/7, 13/7, 15/7, 17/7, 19/7, 21/7, 23/7, 25/7, 27/7, 29/7, 31/7, 1/8, 3/8, 5/8, 7/8, 9/8, 11/8, 13/8, 15/8, 17/8, 19/8, 21/8, 23/8, 25/8, 27/8, 29/8, 31/8, 1/9, 3/9, 5/9, 7/9, 9/9, 11/9, 13/9, 15/9, 17/9, 19/9, 21/9, 23/9, 25/9, 27/9, 29/9, 31/9, 1/10, 3/10, 5/10, 7/10, 9/10, 11/10, 13/10, 15/10, 17/10, 19/10, 21/10, 23/10, 25/10, 27/10, 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