

Rpt. 4.

REPORT ON MACHINERY.

No. 10773

Received at London Office

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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 Yacht No. 28 S.S. Eigenhulp VII (Number of Visits 53)
Master Built at Rotterdam By whom built Messrs. Willems & Co. when made 1916-1919
Engines made at Rotterdam By whom made S.B. when made 1919
Boilers made at S.B. By whom made S.B.
Registered Horse Power Owners Messrs. Willems & Co. Port belonging to Rotterdam
Nom. Horse Power as per Section 28 184 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c.—Description of Engines Triple expansion
Dia. of Cylinders 18" x 22" x 51" Length of Stroke 36" Revs. per minute 82 Dia. of Screw shaft 11" 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
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
Dia. of Tunnel shaft 10 1/4" 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 1/4" Dia. of screw 14 1/2" Pitch of Screw 15-0 No. of Blades 4 State whether moveable No 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 2 1/2" and 3" No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room 4 Suctions of 2 1/4" In Holds, &c. 2 Suctions of 2 1/4" and 2 Suctions of 2 1/4"
No. of Bilge Injections 5 sizes 5" Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size of it 2 1/4"
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 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
How are they protected
What pipes are carried through the bunkers 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 1) Manufacturers of Steel Mannesmann, Ruhr, Werke, A.G. Essen, S.B.
Total Heating Surface of Boilers 3120 sq. ft. Is Forced Draft fitted No No. and Description of Boilers 2 horizontal marine boilers
Working Pressure 180 lb. per sq. in. Tested by hydraulic pressure to 240 lb. 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 sq. ft. No. and Description of Safety Valves to each boiler 2 of 3 1/4" Spring loaded Area of each valve 11 sq. in. Pressure to which they are adjusted 180 lb. 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 24-31 tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams
long. seams 44. 1/4" Dia. of rivet holes in long. seams 1 1/4" Pitch of rivets 8 1/8" Lap of plates or width of butt straps 14 1/4"
Per centages of strength of longitudinal joint rivets 85.4% plate 85.4% Working pressure of shell by rules 192 lb. Size of manhole in shell 12" x 16"
Size of compensating ring 9" x 1 1/8" No. and Description of Furnaces in each boiler 3. Monitors Material Steel Outside diameter 3' 5 1/2"
Length of plain part top 4" bottom 4" Thickness of plates crown 1 1/2" bottom 1 1/2" Description of longitudinal joint welded No. of strengthening rings 2
Working pressure of furnace by the rules 192 lb. Combustion chamber plates: Material Steel Thickness: Sides 1 1/4" Back 1 1/4" Top 1 1/4" Bottom 1 1/4"
Pitch of stays to ditto: Sides 4 1/4" x 8" Back 4 1/4" x 8" Top 4 1/4" x 10" If stays are fitted with nuts or riveted heads riveted, not welded Working pressure by rules 185 lb. End plates in steam space: Material of stays Steel Area at smallest part 1.48 sq. ft. Area supported by each stay 1.48 sq. ft. Working pressure by rules 185 lb. Material of stays Steel
Material Steel Thickness 1 1/4" Pitch of stays 16" x 10 1/2" How are stays secured riveted, not welded Working pressure by rules 185 lb. Material of Front plates at bottom Steel
Area at smallest part 5.94 sq. ft. Area supported by each stay 1.48 sq. ft. Working pressure by rules 185 lb. Working pressure of plate by rules 185 lb.
Thickness 1 1/4" Material of Lower back plate Steel Thickness 1 1/4" Greatest pitch of stays 14 1/2" Working pressure of plate by rules 185 lb.
Diameter of tubes 4 1/4" Pitch of tubes 4 1/4" x 4 1/4" Material of tube plates Steel Thickness: Front 1 1/4" Back 1 1/4" Mean pitch of stays 11 1/2"
Pitch across wide water spaces 14 1/2" Working pressures by rules 185 lb. Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 9" x 12" x 1/2" Length as per rule 2' 4 1/2" Distance apart 10" Number and pitch of stays in each 20' x 1/4"
Working pressure by rules 185 lb. Steam dome: description of joint to shell none % of strength of joint
Diameter 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
Tested by Hydraulic Pressure to

SUPERHEATER. Type Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
Date of Test Pressure to which each is adjusted Is Easing Gear fitted
Diameter of Safety Valve

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 bearing bolts, 1 set of coupling bolts, 1 set of fuel and bilge pump valves, 1 set of piston springs, 2 quantity of essential bolts and nuts. 1 set 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 -- *21/10, 22/10, 23/10, 24/10, 25/10, 26/10, 27/10, 28/10, 29/10, 30/10, 31/10, 1/11, 2/11, 3/11, 4/11, 5/11, 6/11, 7/11, 8/11, 9/11, 10/11, 11/11, 12/11, 13/11, 14/11, 15/11, 16/11, 17/11, 18/11, 19/11, 20/11, 21/11, 22/11, 23/11, 24/11, 25/11, 26/11, 27/11, 28/11, 29/11, 30/11, 1/12, 2/12, 3/12, 4/12, 5/12, 6/12, 7/12, 8/12, 9/12, 10/12, 11/12, 12/12, 13/12, 14/12, 15/12, 16/12, 17/12, 18/12, 19/12, 20/12, 21/12, 22/12, 23/12, 24/12, 25/12, 26/12, 27/12, 28/12, 29/12, 30/12, 31/12, 1/1, 2/1, 3/1, 4/1, 5/1, 6/1, 7/1, 8/1, 9/1, 10/1, 11/1, 12/1, 13/1, 14/1, 15/1, 16/1, 17/1, 18/1, 19/1, 20/1, 21/1, 22/1, 23/1, 24/1, 25/1, 26/1, 27/1, 28/1, 29/1, 30/1, 31/1, 1/2, 2/2, 3/2, 4/2, 5/2, 6/2, 7/2, 8/2, 9/2, 10/2, 11/2, 12/2, 13/2, 14/2, 15/2, 16/2, 17/2, 18/2, 19/2, 20/2, 21/2, 22/2, 23/2, 24/2, 25/2, 26/2, 27/2, 28/2, 29/2, 30/2, 31/2, 1/3, 2/3, 3/3, 4/3, 5/3, 6/3, 7/3, 8/3, 9/3, 10/3, 11/3, 12/3, 13/3, 14/3, 15/3, 16/3, 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