

REPORT ON MACHINERY.

No. 12206.

Port of Hamburg

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No. in Survey held at Flensburg Date, first Survey 5th Oct. 1910 Last Survey 15th July 1911
Reg. Book. Steel S. S. "Adelaide" (Number of Visits 35)

Master Wellhöfer Built at Flensburg By whom built Flensburger Schiffbau Ges. Tons { Gross 5898
Net 3712
When built 1911
Engines made at Flensburg By whom made Flensburger Schiffbau Ges. when made 1911
Boilers made at Flensburg By whom made Flensburger Schiffbau Ges. when made 1911
Registered Horse Power 720 Owners Deutsch-Austral. Dampfschiff Ges. Port belonging to Hamburg
Nom. Horse Power as per Section 28 720 Is Refrigerating Machinery fitted for cargo purposes yes Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3
Dia. of Cylinders 30 5/16, 50 9/16, 84 Length of Stroke 54 Revs. per minute 78 Dia. of Screw shaft as per rule 16.5 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 no 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 no If two liners are fitted, is the shaft lapped or protected between the liners no Length of stern bush 5 7/8
Dia. of Tunnel shaft as per rule 15 3/16 Dia. of Crank shaft journals as per rule 15 15/16 Dia. of Crank pin 16 7/32 Size of Crank webs 10 7/8 x 24 Dia. of thrust shaft under collars 16 7/32 Dia. of screw 19 1/2 Pitch of Screw 16 1/2 No. of Blades 4 State whether moveable no Total surface 9029 ft.
No. of Feed pumps 2 Diameter of ditto 4 1/8 Stroke 3 1/2 Can one be overhauled while the other is at work yes
No. of Bilge pumps 2 Diameter of ditto 4 5/16 Stroke 3 1/2 Can one be overhauled while the other is at work yes
No. of Donkey Engines 6 Sizes of Pumps As per Specification No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room 5 off - 4, 1 from Well 4, 1 from Recess 3, 1 from Tunnel, 2 from Holds, &c. 13 off - 4, 1 from Tanks 16 off 4, 1 from Fore and Aft peak 2 off - 3 1/2
No. of Bilge Injections 1 sizes 12 Connected to condenser, or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size yes - 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 none
Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks Valves & 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 no
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 4/5. 11. of Stern Tube 20/5. 11 Screw shaft and Propeller 14/6. 11.
Is the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from cyld. platform

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Phoenix A.M. Ges. Abt. Hoerder Verein of Hoerde
Total Heating Surface of Boilers 84,114 Is Forced Draft fitted yes No. and Description of Boilers 3 single end, multitubular
Working Pressure 185 lbs Tested by hydraulic pressure to 370 lbs Date of test 24. 4. - 1. 5. 11 No. of Certificate 141. - 2. - 3.
Can each boiler be worked separately yes Area of fire grate in each boiler 65.9 sq. ft. No. and Description of Safety Valves to each boiler 2 Spring load. Area of each valve 18.56 sq. in. Pressure to which they are adjusted 185 lbs Are they fitted with easing gear yes
Smallest distance between boilers or uptakes and bunkers or woodwork 18 Mean dia. of boilers 15 3/8 Length 12 0/8 Material of shell plates Steel
Thickness 1 1/4 Range of tensile strength 28,640 to 32,000 lbs. Are the shell plates welded or flanged no Descrip. of riveting: cir. seams lap. dbl. riv. long. seams dbl. riv. Diameter of rivet holes in long. seams 1.5 Pitch of rivets 20.5 Lap of plates or width of butt straps 27.6 x 1 1/2
Per centages of strength of longitudinal joint rivets 115.1% Working pressure of shell by rules 200.1 lbs. Size of manhole in shell 16.5 x 12.48
Size of compensating ring 8.6 x 1.6 No. and Description of Furnaces in each boiler 3 horizontal Material Steel Outside diameter 4' 1.25"
Length of plain part top 4 Thickness of plates crown 65 Description of longitudinal joint welded No. of strengthening rings none
Working pressure of furnace by the rules 217.5 lbs Combustion chamber plates: Material Steel Thickness: Sides .625 Back .625 Top .625 Bottom 1 1/2
Pitch of stays to ditto: Sides 7.7 x 7.5 Back 8.12 x 7.7 Top 7.7 x 7.5 If stays are fitted with nuts or riveted heads nuts & heads Working pressure by rules 228.9 lbs
Material of stays Steel Diameter at smallest part 3.7 Area supported by each stay 58 sq. in. Working pressure by rules 228.9 lbs End plates in steam space: Material Steel Thickness 1 Pitch of stays 15 x 15 How are stays secured dbl. nuts with Working pressure by rules 227.5 lbs Material of stays Steel
Diameter at smallest part 3 Area supported by each stay 225 sq. in. Working pressure by rules 326.9 lbs Material of Front plates at bottom Steel
Thickness 1 Material of Lower back plate Steel Thickness .9 Greatest pitch of stays 12.5 Working pressure of plate by rules 185 lbs
Diameter of tubes 2.75 Pitch of tubes 3.87 Material of tube plates Steel Thickness: Front 1 1/2 Back .9 Mean pitch of stays 7.75
Pitch across wide water spaces 13.75 Working pressures by rules 185.3 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 9.82 x 1.35 Length as per rule 34 Distance apart 7.5 Number and pitch of stays in each 3 - 7.7
Working pressure by rules 211.4 lbs Superheater or Steam chest; how connected to boiler no Can the superheater be shut off and the boiler worked separately no Diameter no Length no Thickness of shell plates no Material no Description of longitudinal joint no Diam. of rivet holes no Pitch of rivets no Working pressure of shell by rules no Diameter of flue no Material of flue plates no Thickness no
If stiffened with rings no Distance between rings no Working pressure by rules no End plates: Thickness no How stayed no
Working pressure of end plates no Area of safety valves to superheater no Are they fitted with easing gear no

