

REPORT ON MACHINERY.

No. 13923

Received at London Office

WED. MAR. 13. 1914

Date of writing Report 12th March 1914 When handed in at Local Office 10 Port of Hamburg
 No. in Survey held at Kiel Date, First Survey 25th April 13 Last Survey 10th March 1914
 Reg. Book. 32 Lipp. on the Steel S.S. " Jupiter (Number of Visits 24) Yard N. 582 Tons { Gross 10073 Net 5903
 Master Dalldorf Built at Kiel By whom built Howaldtswerke When built 1914
 Engines made at Kiel By whom made Howaldtswerke when made 1914
 Boilers made at Kiel By whom made Howaldtswerke when made 1914
 Registered Horse Power 651 Owners Deutsch-Amerik. Petroleum Ges. Port belonging to Hamburg
 Nom. Horse Power as per Section 28 651 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Quadruple Expansion No. of Cylinders 4 No. of Cranks 4
 Dia. of Cylinders 27 1/8, 40 5/8 & 8 1/4 Length of Stroke 57 Revs. per minute 705 Dia. of Screw shaft 16 1/2 Material of Steel
 as per rule 16 3/4 as fitted 16 3/4 screw shaft)
 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 78 3/4
 Dia. of Tunnel shaft 15 1/2 as per rule 15 3/8 as fitted 15 3/8 Dia. of Crank shaft journals 15 3/4 as per rule 15 3/4 as fitted 16 1/8 Dia. of Crank pin 16 1/2 Size of Crank webs 10 1/2 x 3 1/2 Dia. of thrust shaft under
 collars 16 1/8 Dia. of screw 14 1/4 Pitch of Screw 18 6/16 No. of Blades 4 State whether moveable yes Total surface 116 sq. ft.
 No. of Feed pumps 2 Diameter of ditto 5 1/8 Stroke 27 1/16 Can one be overhauled while the other is at work yes
 No. of Bilge pumps 2 Diameter of ditto 5 1/8 Stroke 27 1/16 Can one be overhauled while the other is at work yes
 No. of Donkey Engines 9 Sizes of Pumps See Specifications No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 6 off 3 1/2, 5 off 3 1/2 from fore hold, 2 off 5 from fore hold,
2 off 9 from fore hold, 4 off 6 deep tank, 2 off 3 1/2 from fore hold, 1 off 4 from fore hold, 1 off 5 from fore hold,
 No. of Bilge Injections 1 sizes 9 Connected to condenser, or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size yes, 3 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 no
 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 15/1/14 of Stern Tube 15/1/14 Screw shaft and Propeller 15/1/14
 Is the Screw Shaft Tunnel watertight no tunnel Is it fitted with a watertight door no worked from no

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Thyssen & Co. Kuhlheim & Ruhr
 Total Heating Surface of Boilers 8612 sq. ft. Is Forced Draft fitted yes No. and Description of Boilers 3 Single end, multitubular
 Working Pressure 213 lbs Tested by hydraulic pressure to 426 lbs Date of test 7/13 2/18 7/14 No. of Certificate 234, 235 & 236
 Can each boiler be worked separately yes Area of fire grate in each boiler 65 sq. ft. No. and Description of Safety Valves to
 each boiler 2 Spring loaded Area of each valve 17.57 sq. in. Pressure to which they are adjusted 213 lbs Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 2' 2" Mean dia. of boilers 15' 5" Length 11' 6" Material of shell plates Steel
 Thickness 1.42 Range of tensile strength 28-32 Tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams lap, dbl. riv.
 long. seams dbl. butt, quad. Diameter of rivet holes in long. seams 1.5 Pitch of rivets 19.4 Lap of plates or width of butt straps 1.42 x 30
 Per centages of strength of longitudinal joint rivets 105% plate 93.2% Working pressure of shell by rules 230 lbs Size of manhole in shell 11.8 x 15.75
 Size of compensating ring 1.42 x 28.4 x 3.15 No. and Description of Furnaces in each boiler 3 horizontal Material Steel Outside diameter 49.25
 Length of plain part top 5 bottom 6 Thickness of plates crown 3.67 bottom 3.67 Description of longitudinal joint welded No. of strengthening rings none
 Working pressure of furnace by the rules 230 lbs Combustion chamber plates: Material Steel Thickness: Sides 71 Back 67 Top 67 Bottom 95
 Pitch of stays to ditto: Sides 7.5 x 7.8 Back 7.5 x 7.8 Top 7.5 x 7.8 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 277 lbs
 Material of stays Steel Diameter at smallest part 1.45 Area supported by each stay 59 sq. in. Working pressure by rules 240 lbs End plates in steam space:
 Material Steel Thickness 1.14 Pitch of stays 15.7 x 15.7 How are stays secured all stays Working pressure by rules 228 lbs Material of stays Steel
 Diameter at smallest part 3 Area supported by each stay 248 sq. in. Working pressure by rules 296.5 Material of Front plates at bottom Steel
 Thickness 1 Material of Lower back plate Steel Thickness 1 Greatest pitch of stays 19.68 Working pressure of plate by rules 228 lbs
 Diameter of tubes 2.5 Pitch of tubes 3.66 Material of tube plates Steel Thickness: Front 1.02 Back 9 Mean pitch of stays 7.3
 Pitch across wide water spaces 13.75 Working pressures by rules 216 lbs Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 8.87 x 1.57 Length as per rule 31.5 Distance apart 7.8 Number and pitch of stays in each 3-7.8
 Working pressure by rules 224 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

002151-002156-0039
 002151-002156-0040



