

REPORT ON MACHINERY.

No. 12476
MON. JAN 8

Received at London Office

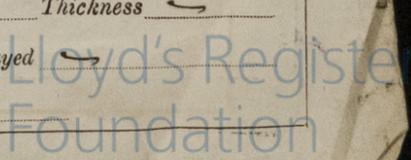
Date of writing Report 30th Decr. 11 When handed in at Local Office 19 Port of Hamburg
 No. in Survey held at Flensburg Date, First Survey 3rd March Last Survey 31st Decr. 1911
 Reg. Book. 867 on the Steel Co. Lr. "Melbourne" (Number of Visits 48)
 Master L. Maier Built at Flensburg By whom built Flensburger Schiffbau Ges. When built 1911. 12
 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 751 Owners Deutsch-Austral. Dampfschiff Ges Port belonging to Hamburg
 Nom. Horse Power as per Section 28 751 Is Refrigerating Machinery fitted for cargo purposes yes Is Electric Light fitted yes

Tons { Gross 5926
Net 3715

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 30 1/16, 50 9/16, 84" Length of Stroke 54" Revs. per minute 78 Dia. of Screw shaft as per rule 16.5 Material of Steel
 as fitted 16 7/16 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 5' 4 3/4"
 Dia. of Tunnel shaft as per rule 15 7/16 Dia. of Crank shaft journals as per rule 15 15/16 Dia. of Crank pin 16 7/32 Size of Crank webs 10 5/8 x 2 1/2" Dia. of thrust shaft under
 collars 16 7/32 Dia. of screw 19 1/16 Pitch of Screw 16 9/16 No. of Blades 4 State whether movable no Total surface 90 sq. 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 see Specifications No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 5 off 4" 1 from Well 4" 1 from Recen 2" 1 from Tunnel 2" 1 from Tunnel peak 3 1/2" In Holds, &c. 13 off 4" from Tank 16 off 4" from
 fore and aft Peak 2 off 3 1/4"
 No. of Bilge Injections 1 sizes 1 1/2" 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 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 21/11. 11 of Stern Tube 22/12. 11 Screw shaft and Propeller 25/12. 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 B.) Manufacturers of Steel Phoenix A. Co. Akt. Korder Verein, Korder.
Furnaces: Rheinische Stahlwerke Akt. Duisburger Eisen & Stahlwerk,
 Total Heating Surface of Boilers 112,192 sq. ft. Is Forced Draft fitted yes No. and Description of Boilers 4 single end, multitubular
 Working Pressure 185 lbs. Tested by hydraulic pressure to 370 lbs. Date of test 11/11, 21/11, 23/11 No. of Certificate 152, 153, 154, 155.
 Can each boiler be worked separately yes Area of fire grate in each boiler 65.929 sq. ft. No. and Description of Safety Valves to
 each boiler 2 Spring loaded Area of each valve 12.5629 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 16' 3 7/8" Length 13' 0 7/8" Material of shell plates Steel
 Thickness 1.24 Range of tensile strength 29-33 Tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams lap, all riv.
 long. seams all butt, gas riv. Diameter of rivet holes in long. seams 1.5" Pitch of rivets 20.5" Lap of plates or width of butt straps 29.6 x 14"
 Per centages of strength of longitudinal joint 115.1% Working pressure of shell by rules 200.1 lbs. Size of manhole in shell 16.5 x 12.5 sq. in.
 plate 92.7% Size of compensating ring 8.6 x 1.24" No. and Description of Furnaces in each boiler 3 horizontal Material Steel Outside diameter 4' 1 1/4"
 Length of plain part top 4' 2" Thickness of plates bottom 1.65" 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 .12
 Pitch of stays to ditto: Sides 7.7 x 7.5" Back 8.2 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 1.37" Area supported by each stay 58.29 sq. in. Working pressure by rules 228.9 lbs. End plates in steam space:
 Material Steel Thickness 1.2" Pitch of stays 15 x 15" How are stays secured all nuts & wash. Working pressure by rules 227.5 lbs. Material of stays Steel
 Diameter at smallest part 3" Area supported by each stay 225.29 sq. in. Working pressure by rules 226.8 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 180 lbs.
 Diameter of tubes 2.75" Pitch of tubes 3.87" Material of tube plates Steel Thickness: Front 1" Back .9" Mean pitch of stays 7.75 lbs.
 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

W1307-0235-3



VERTICAL DONKEY BOILER— Manufacturers of Steel *no donkey boiler fitted*

No. _____ Description _____

Made at _____ By whom made _____ When made _____ Where fixed _____

Working pressure tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____ Fire grate area _____ Description of Safety _____

Valves _____ No. of Safety Valves _____ Area of each _____ Pressure to which they are adjusted _____ Date of adjustment _____

If fitted with easing gear _____ If steam from main boilers can enter the donkey boiler _____ Dia. of donkey boiler _____ Length _____

Material of shell plates _____ Thickness _____ Range of tensile strength _____ Descrip. of riveting long. seams _____

Dia. of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____ Lap of plating _____ Per centage of strength of joint _____ Rivets _____ Plates _____

Working pressure of shell by rules _____ Thickness of shell crown plates _____ Radius of do. _____ No. of stays to do. _____ Dia. of stays _____

Diameter of furnace Top _____ Bottom _____ Length of furnace _____ Thickness of furnace plates _____ Description of joint _____

Working pressure of furnace by rules _____ Thickness of furnace crown plates _____ Stayed by _____

Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____ Dates of survey _____

SPARE GEAR. State the articles supplied:— *1 Propeller, 1 Propellershaft, 1/3 crankshaft, 1 pair crankpin brasses, 2 pair crosshead brasses, 2 bolts withouts for main bearings, 2 bolts and nuts for connecting rod bottom— and 4 bolts and nuts for connecting rod top end, 2 pump links one for each side, 1 slide rod, 1 air pump rod, 1 circulating pump rod, 1 set coupling bolts, 30 tubes for main Boilers, 25 condenser tubes and 50 screw glands, 1 set valves for air pump, 1 set valves for circulating pumps, 1 set valves and seats for feed and bilge pump each, 1 set valves for each auxiliary steam pump, 1 set packing rings for each piston and piston valve, 1 spring for main Boiler safety valve, 1 spring for safety valve of feed pump, 1/2 set fire bars for each Boiler, a large number of bolts studs nuts, rivets, bar and plate iron assorted.*

The foregoing is a correct description,
Flensburger Schiffsbau-Gesellschaft
 Manufacturer.

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