

REPORT ON MACHINERY.

No. 13797

SAT. JAN. 10. 1914

Received at London Office

Date of writing Report 5th Jan 1914 When handed in at Local Office 1914 Port of Hamburg

No. in Survey held at Flensburg Hamburg Date, First Survey 19th May 13 Last Survey 2nd Jan. 1914
 Reg. Book. 80 on the Steel S.S. "Schneepels" (Number of Visits 26) Tons Gross 5826
Net 3637

Master V. Freeden Built at Flensburg By whom built Flensburger Schiffbau Ges. When built 1913

Engines made at Flensburg By whom made Flensburger Schiffbau Ges. when made 1913.

Boilers made at Flensburg By whom made Flensburger Schiffbau Ges. when made 1913.

Registered Horse Power 530 Owners Deutscher Reichspost. Ges. "Kaiser" Port belonging to Bremen

Nom. Horse Power as per Section 28 530 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 16 3/4, 16 1/2, 16 1/2 Length of Stroke 54 Revs. per minute 65 Dia. of Screw shaft 16 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 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 6' 6"

Dia. of Tunnel shaft 14 1/2 Dia. of Crank shaft journals 15 1/2 Dia. of Crank pin 15 1/16 Size of Crank webs 27 1/2 Dia. of thrust shaft under collars 15 1/16 Dia. of screw 19 7/8 Pitch of Screw 17 7/8 No. of Blades 4 State whether moveable yes Total surface 9229 sq. ft.

No. of Feed pumps 2 Diameter of ditto 4 Stroke 30 Can one be overhauled while the other is at work yes

No. of Bilge pumps 2 Diameter of ditto 4 5/16 Stroke 30 Can one be overhauled while the other is at work yes

No. of Donkey Engines 4 Sizes of Pumps See Specifications No. and size of Suctions connected to both Bilge and Donkey pumps 4 1/2" from tunnel peak, 1 1/2" from tunnel, 1 1/2" from tunnel, 1 1/2" from Forepeak.

In Engine Room 4 off 3 1/2", 1 off 2" from recess, 1 off 3/4" from tunnel, 1 1/2" from tunnel, 1 1/2" from tunnel, 1 1/2" from Forepeak.

No. of Bilge Injections 1 sizes 3/4" Connected to condenser or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size 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 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 Fore hold Sustains How are they protected wood boxes

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 12.11.13 of Stern Tube 12.11.13 Screw shaft and Propeller 27.11.13.

Is the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from deck platform

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Fried Krupp Alheim Ges., Essen & Ruhr.

Total Heating Surface of Boilers 6956 sq. ft. Is Forced Draft fitted yes No. and Description of Boilers 3 - Single ended multitubular

Working Pressure 185 lbs. Tested by hydraulic pressure to 370 lbs. Date of test 2/11, 27/11 & 2/12/13 No. of Certificate 230, 231 & 232

Can each boiler be worked separately yes Area of fire grate in each boiler 49.2 sq. ft. No. and Description of Safety Valves to each boiler Spring loaded Area of each valve 12.5 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 20" Mean dia. of boilers 18 5/8" Length 44 1/2' Material of shell plates Steel

Thickness 1.18" Range of tensile strength 24-32 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams lap, dbl. riv.

long. seams dbl. bk. quad riv. Diameter of rivet holes in long. seams 1.4" Pitch of rivets 19.06" Lap of plates or width of butt straps 24.75"

Per centages of strength of longitudinal joint rivets 110.4% Working pressure of shell by rules 199 lbs. Size of manhole in shell 12.2 x 16.1"

Size of compensating ring 11.6 x 1.18" No. and Description of Furnaces in each boiler 3 horizontal Material Steel Outside diameter 43.3"

Length of plain part top 1.5" Thickness of plates bottom 1.61" Description of longitudinal joint welded No. of strengthening rings none

Working pressure of furnace by the rules 232.6 lbs. Combustion chamber plates: Material Steel Thickness: Sides .66" Back .60" Top .66" Bottom 1"

Pitch of stays to ditto: Sides 7.87" Back 7.87" Top 7.75" If stays are fitted with nuts or riveted heads nuts & heads Working pressure by rules 225 lbs.

Material of stays Steel Diameter at smallest part 1.5" Area supported by each stay 60 sq. in. Working pressure by rules 235.6 lbs. End plates in steam space: Material Steel Thickness 1.03" Pitch of stays 15" How are stays secured dbl. nut & wash. Working pressure by rules 225 lbs. Material of stays Steel

Diameter at smallest part 3" Area supported by each stay 225 sq. in. Working pressure by rules 226.1 lbs. Material of Front plates at bottom Steel

Thickness 1.06" Material of Lower back plate Steel Thickness 9" Greatest pitch of stays 16.5" Working pressure of plate by rules 207 lbs.

Diameter of tubes 3" Pitch of tubes 47.8" Material of tube plates Steel Thickness: Front 1.06" Back .9" Mean pitch of stays 8.4"

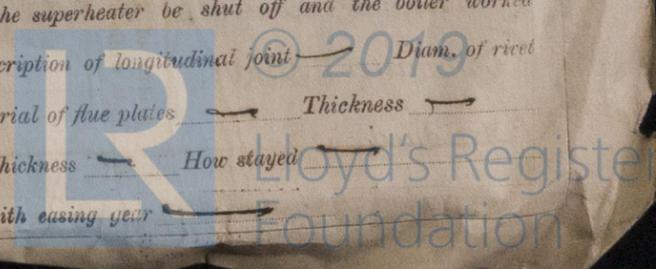
Pitch across wide water spaces 14.18" Working pressures by rules 191.5 lbs. Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 1.24 x 9.84" Length as per rule 35" Distance apart 7.5" Number and pitch of stays in each 3 - 7.87"

Working pressure by rules 198.5 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

D110-062M



VERTICAL DONKEY BOILER— Manufacturers of Steel

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 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 Radius of do. Stayed by Diameter of uptake Thickness of uptake plates Thickness of water tubes Dates of survey

SPARE GEAR. State the articles supplied: - 1 Propellershaft 2 bronze Propeller blades, 1/3 crankshaft, 1 pair bearings, 2 bolts with nuts for bottom end + 2 pair top end brasses, 2 bolts with nuts for ... 1 set of bolts for funnel shaft couplings, 1 slide rod, 1 eccentric strap complete, 1 set of ... rings for each cylinder, 1 air pump, rod, 2 links one for each side, 2 Springs for Safety valve of main boilers, 1 Spring for Safety valves of Donkey boiler, 1 slide rod - 1 crankshaft they fit wheelshaft - 1 piston with rod complete for centrifugal pump, 25 condenser tubes of 100 feet 30 main boiler tubes, 1/2 set of fire bars, a large number of bolts, studs, nuts, rivets, bar and plate iron assorted, a large quantity of spare engine articles for all auxiliary pumps

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

Dates of Survey while building During progress of work in shops - - - 29/5/13, 19/6, 27/6, 3/7, 21/8, 1/9, 14/9, 21/9, 9/10, 21/10, 29/10, 31/10, 5/11, 12/11, 13/11 1913 During erection on board vessel - - - 20/11, 21/11, 27/11, 4/12, 9/12, 19/12, 18/12, 23/12, 31/12 1913 + 2/1 1914 Total No. of visits 26 Is the approved plan of main boiler forwarded herewith yes ✓ " " " donkey " " " yes ✓

Dates of Examination of principal parts - Cylinders 21 + 27/11 13 Slides 3/11 13 Covers 27/11 13 Pistons 9/10 13 Rods 20/11 13 Connecting rods 20/11 13 Crank shaft 29/10/13 Thrust shaft 29/10/13 Tunnel shafts 29/10/13 Screw shaft 13/11 13 Propeller 13/11 13 Stern tube 13/11 13 Steam pipes tested 15/12 13 Engine and boiler seatings 18/12 13 Engines holding down bolts 19/12 13 Completion of pumping arrangements 31/12 13 Boilers fixed 23/12 13 Engines tried under steam 31/12 13 Main boiler safety valves adjusted 31/12 13 Thickness of adjusting washers - 2 1/2, 2 1/4, 2 1/8, 2 1/16, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 2 3/4, 3, 3 1/4, 3 1/2, 3 3/4, 4, 4 1/4, 4 1/2, 4 3/4, 5, 5 1/4, 5 1/2, 5 3/4, 6, 6 1/4, 6 1/2, 6 3/4, 7, 7 1/4, 7 1/2, 7 3/4, 8, 8 1/4, 8 1/2, 8 3/4, 9, 9 1/4, 9 1/2, 9 3/4, 10, 10 1/4, 10 1/2, 10 3/4, 11, 11 1/4, 11 1/2, 11 3/4, 12, 12 1/4, 12 1/2, 12 3/4, 13, 13 1/4, 13 1/2, 13 3/4, 14, 14 1/4, 14 1/2, 14 3/4, 15, 15 1/4, 15 1/2, 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