

REPORT ON MACHINERY.

No. 10368

Received at London Office

MUN. 27 III 1908

Date of writing Report 11th July 1908 When handed in at Local Office

Port of Hamburg

No. in Survey held at Flensburg

Date, First Survey 30th Dec. 07 Last Survey 8th July 1908

Reg. Book. Supp. 32 on the Shed L. Gr.

"Niagara"

(Number of Visits 24)

Gross 6655

Net 4119

Master A. Schaus Built at Flensburg By whom built Flensburger Schiffbau Ges. When built 1908

Engines made at Flensburg By whom made Flensburger Schiffbau Ges. when made 1908

Boilers made at Flensburg By whom made Flensburger Schiffbau Ges. when made 1908

Registered Horse Power 620 Owners Deutsch-Amerikan. Petroleum Ges. Port belonging to Hamburg

Nom. Horse Power as per Section 28 620 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Quadr. Expansion No. of Cylinders 4 No. of Cranks 4

Dia. of Cylinders 24, 34, 51, 74 Length of Stroke 54 Revs. per minute 72 Dia. of Screw shaft 15 3/4 Material of 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' 6"

Dia. of Tunnel shaft 13 7/8 Dia. of Crank shaft journals 14 1/4 Dia. of Crank pin 15 Size of Crank webs 21 1/2 x 9 1/2 Dia. of thrust shaft under

collars 16 1/4 Dia. of screw 19 1/2 Pitch of Screw 15 1/2 No. of Blades 4 State whether moveable yes Total surface 92 sq. ft.

No. of Feed pumps 2 Diameter of ditto 4 Stroke 28 Can one be overhauled while the other is at work yes

No. of Bilge pumps 2 Diameter of ditto 4 1/4 Stroke 28 Can one be overhauled while the other is at work yes

No. of Donkey Engines 7 Sizes of Pumps see Specifications No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 9 off 3 1/2", 1 off 8 1/2", 2 off 8 1/2" from bunkers In Holds, &c. 2 off 2" from cargo tanks, 1 off 6" and 1 off 5" from

coffers, 2 off from fore ballast tank, 1 off from fore peak, 1 off from aft peak, 1 off each from tunnel & bottom peak

No. of Bilge Injections 1 sizes 8 1/2" 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 yes

Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks locks and valves

Are they fixed sufficiently high on the ship's side to be seen without lifting the stowhold 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 16.08 of Stern Tube 16.08 Screw shaft and Propeller 24.08

Is the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door no worked from through bulkhead from Deck

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Hopps, Fryssen & Co. Furnaces: The Leeds Forge Co. Ltd.

Total Heating Surface of Boilers 9016 sq. ft. Is Forced Draft fitted yes No. and Description of Boilers 3 single ended multitubular

Working Pressure 215 lbs Tested by hydraulic pressure to 430 lbs Date of test 22.2.08 No. of Certificate —

Can each boiler be worked separately yes Area of fire grate in each boiler 61.33 sq. ft. No. and Description of Safety Valves to

each boiler 2 spring loaded Area of each valve 12.6 sq. in. Pressure to which they are adjusted 215 lbs Are they fitted with easing gear yes

Smallest distance between uptakes and bunkers or woodwork 2' 0" Mean dia. of boilers 15 1/2" Length 12' 2" Material of shell plates Steel

Thickness 1.44" 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. riv. lap, riv. Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 20.8" Lap of plates or width of butt straps 33.5"

Per centages of strength of longitudinal joint 121.7% Working pressure of shell by rules 227.3 lbs Size of manhole in shell 19 1/2 x 15 1/8"

Size of compensating ring 8 7/8 x 8 7/8" No. and Description of Furnaces in each boiler 3 horizontal Material Steel Outside diameter 47.25"

Length of plain part 5" Thickness of plates 1 1/2" Description of longitudinal joint welded No. of strengthening rings none

Working pressure of furnace by the rules 239.8 lbs Combustion chamber plates: Material Steel Thickness: Sides .65" Back .64" Top .65" Bottom 1"

Pitch of stays to ditto: Sides 7.8" Back 7.5" Top 7.8" If stays are fitted with nuts or riveted heads both Working pressure by rules 228 lbs

Material of stays Steel Diameter at smallest part 1.6" Area supported by each stay 31.2 sq. in. Working pressure by rules 309.8 lbs End plates in steam space:

Material Steel Thickness 1.09" Pitch of stays 16" How are stays secured all nuts with washers Working pressure by rules 216 lbs Material of stays Steel

Diameter at smallest part 3" Area supported by each stay 13.2 sq. in. Working pressure by rules 326 lbs Material of Front plates at bottom Steel

Thickness 1.02" Material of Lower back plate Steel Thickness .94" Greatest pitch of stays 19" Working pressure of plate by rules 243.9 lbs

Diameter of tubes 2 1/2" Pitch of tubes 3.8" Material of tube plates Steel Thickness: Front 1.02" Back .94" Mean pitch of stays 7.6"

Pitch across wide water spaces 13.5" Working pressures by rules 225 lbs Girders to Chamber tops: Material Steel Depth and

thickness of girder at centre 10.6" Length as per rule 35" Distance apart 7.5" Number and pitch of stays in each 3-7.8"

Working pressure by rules 352 lbs Superheater or Steam chest; how connected to boiler no Can the superheater be shut off and the boiler worked

separately no Diameter — Length — Thickness of shell plates — Material — Description of longitudinal joint — Diam. of rivet

holes — Pitch of rivets — Working pressure of shell by rules — Diameter of flue — Material of flue plates — Thickness —

If stiffened with rings — Distance between rings — Working pressure by rules — End plates: Thickness — How stayed —

Working pressure of end plates — Area of safety valves to superheater — Are they fitted with easing gear —

W594-0119 (1/2)

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 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 _____ Rivets _____

Dia. of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____ Lap of plating _____ Per centage of strength of joint _____ 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:— 1/4" Crank shaft, 1 Piston shaft, 1 Propeller shaft, 1 Propeller bar, 4 Prop. blades, 1 set slides for 1 blade valve, 1 set piston springs & rings, 2 pump links, 1 wire rope and 4 bushes, 1 disc & shaft for unclipping circular pump, 1 set of main bearing brasses, 2 sets of main rod top & 1 set of 2" bottom end brasses, 2 main bearing bolts, 4 conn. rod top & 1 set of 2" bottom end bolts, 2 chiller rods, 1 chiller rod end and link block, 1 eccentric strap complete, 2 sets of pump link bolts, 2 Main Boiler Safety valve springs, 1 Spring for each of caps valves, 1 set of feed and bilge pump valves and seats, 1 set of feed check valves for all Boilers, 1 set of air pump valves, 2 5" lead main tubes with 100 coarse glands, 2 5" Main Boiler tubes, 12 set fire bars, a large quantity of spare engine articles for all auxiliary Engines and pumps, bolts, slides, nuts, rivets, plates and bar iron assorted, &c. &c.

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

Dates of Survey while building

During progress of work in shops -	20/12.07, 31, 10/1, 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, 17/3, 18/3, 19/3, 20/3, 21/3, 22/3, 23/3, 24/3, 25/3, 26/3, 27/3, 28/3, 29/3, 30/3, 31/3, 1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 7/4, 8/4, 9/4, 10/4, 11/4, 12/4, 13/4, 14/4, 15/4, 16/4, 17/4, 18/4, 19/4, 20/4, 21/4, 22/4, 23/4, 24/4, 25/4, 26/4, 27/4, 28/4, 29/4, 30/4, 31/4, 1/5, 2/5, 3/5, 4/5, 5/5, 6/5, 7/5, 8/5, 9/5, 10/5, 11/5, 12/5, 13/5, 14/5, 15/5, 16/5, 17/5, 18/5, 19/5, 20/5, 21/5, 22/5, 23/5, 24/5, 25/5, 26/5, 27/5, 28/5, 29/5, 30/5, 31/5, 1/6, 2/6, 3/6, 4/6, 5/6, 6/6, 7/6, 8/6, 9/6, 10/6, 11/6, 12/6, 13/6, 14/6, 15/6, 16/6, 17/6, 18/6, 19/6, 20/6, 21/6, 22/6, 23/6, 24/6, 25/6, 26/6, 27/6, 28/6, 29/6, 30/6, 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