

REPORT ON MACHINERY.

Port of *Hamburg*Received at London Office **19 MAR 1903**

No. in Survey held at *Stensburg* Date, first Survey *24/6.02* Last Survey *14/3. 1903*
 Reg. Book *Suppl 13* on the *Steel S. S. "Lichtenfels"* (Number of Visits *23*)
 Master *Frederico* Built at *Stensburg* By whom built *Stensburger Schiffsb. Ges.* When built *1903*
 Engines made at *Stensburg* By whom made *Stensburger Schiffsb. Ges.* when made *1903*
 Boilers made at *Stensburg* By whom made *Stensburger Schiffsb. Ges.* when made *1903*
 Registered Horse Power *511* Owners *Deutsche Dampfschiff. Ges. "Hansa"* Port belonging to *Bremen*
 Nom. Horse Power as per Section 28 *511 506* Is Refrigerating Machinery fitted *no* Is Electric Light fitted *yes*

ENGINES, &c.—Description of Engines *Quadruple on 4 cranks surf. cond.* No. of Cylinders *4* No. of Cranks *4*
 Dia. of Cylinders *24" 34" 51" 74"* Length of Stroke *54"* Revs. per minute *65* Dia. of Screw shaft *16 1/4"* as per rule *15 1/4"* as fitted *16 1/4"* Lgth. of stern bush *8 1/2"*
 Dia. of Tunnel shaft *13.55"* as per rule *14.2"* as fitted *13.95"* Dia. of Crank shaft journals *14.6"* as fitted *14.6"* Dia. of Crank pin *14.6"* Size of Crank webs *9 5/8 x 2 1/5"* Dia. of thrust shaft under collars *14.25"* Dia. of screw *19.0"* Pitch of screw *20.0"* No. of blades *4* State whether moveable *yes* Total surface *86.5 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 *4.25"* Stroke *28"* Can one be overhauled while the other is at work *yes*
 No. of Donkey Engines *3* Sizes of Pumps *1 ballast 14" x 24" dk. act. 2 feed 6" x 12" dk. act. 3/dupl. Blake 4" x 6"* No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room *4-2 off 3.5" 2 off 4" 3 in tunnel 3.5"* In Holds, &c. *8-2 in each hold 3.5" each 17-4" each 1 in tunnel peak 3.5" 1 peak tank 3.5"*
 No. of bilge injections *1* sizes *7"* Connected to condenser, or to circulating pump *yes* Is a separate donkey suction fitted in Engine room & size *2 off 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 *both 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 suction* How are they protected *by wooden 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*
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock Is the screw shaft tunnel watertight *yes*
 Is it fitted with a watertight door *yes* worked from *Cylinder platform*.

BOILERS, &c.—(Letter for record *S.*) Total Heating Surface of Boilers *6500 sq. ft.* Is forced draft fitted *yes*
 No. and Description of Boilers *3 single ended cylinder multitubular* Working Pressure *213 lbs* Tested by hydraulic pressure to *426 lbs*
 Date of test *11.2.03* Can each boiler be worked separately *yes* Area of fire grate in each boiler *48'4 sq"* No. and Description of safety valves to each boiler *2 spring loaded* Area of each valve *9.62 sq"* 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 *1.66"* Mean dia. of boilers *14.0"* Length *12'1"* Material of shell plates *Steel*
 Thickness *1.5"* Range of tensile strength *27.5/30* Are they welded or flanged *no* Descrip. of riveting: cir. seams *lap & reb. riv. long. seams dbl. butt. quad. riv.*
 Diameter of rivet holes in long. seams *1.5"* Pitch of rivets *4.56"* Lap of plates or width of butt straps *30.5"*
 Per centages of strength of longitudinal joint rivets *106.6%* plate *91.5%* Working pressure of shell by rules *251.6 lbs* Size of manhole in shell *15.75" x 11.7"*
 Size of compensating ring *8" x 1.5"* No. and Description of Furnaces in each boiler *3 Fox Pat.* Material *Steel* Outside diameter *43.3"*
 Length of plain part top *7"* bottom *11"* Thickness of plates crown *.56"* bottom *.56"* Description of longitudinal joint *welded* No. of strengthening rings *no*
 Working pressure of furnace by the rules *261.7 lbs* Combustion chamber plates: Material *Steel* Thickness: Sides *.62"* Back *.62"* Top *.62"* Bottom *.8"*
 Pitch of stays to ditto: Sides *7.6"* Back *7.8 1/2"* Top *7.6 1/2"* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *231 lbs*
 Material of stays *Steel* Diameter at smallest part *1.6"* Area supported by each stay *58.5 sq"* Working pressure by rules *307.5 lbs* End plates in steam space:
 Material *Steel* Thickness *1.14"* Pitch of stays *15"* How are stays secured *dbl. nuts & wash.* Working pressure by rules *304 lbs* Material of stays *Steel*
 Diameter at smallest part *2.75"* Area supported by each stay *22.5 sq"* Working pressure by rules *263.5 lbs* Material of Front plates at bottom *Steel*
 Thickness *.8"* Material of Lower back plate *Steel* Thickness *1.03"* Greatest pitch of stays *13.6"* Working pressure of plate by rules *244 lbs*
 Diameter of tubes *2.5"* Pitch of tubes *3.75"* Material of tube plates *Steel* Thickness: Front *.93"* Back *.89"* Mean pitch of stays *7.5"*
 Pitch across wide water spaces *13.6"* Working pressures by rules *314 lbs* Girders to Chamber tops: Material *Steel* Depth and thickness of girder at centre *11.25" x 1.43"* Length as per rule *33.87"* Distance apart *7.5"* Number and pitch of Stays in each *3 x 7.7"*
 Working pressure by rules *269.5 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*

DONKEY BOILER—

No. 1

Description

Single ended cylindrical multitubular

Made at Flensburg

By whom made

Flensburger Schiffbau Ges.

When made

1903

Where fixed

stoke hold

Working pressure

12 1/2 lbs

tested by hydraulic pressure to

242 lbs

No. of Certificate

Fire grate area

4 1/2 sq

Description of safety valves

spring loaded

No. of safety valves

2

Area of each

8 25/32 sq

Pressure to which they are adjusted

12 1/2 lbs

If fitted with easing gear

yes

If steam from main boilers can

enter the donkey boiler

no

Dia. of donkey boiler

12"

Length

10'

Material of shell plates

Steel

Thickness

8"

Range of tensile

strength

27/30

Descrip. of riveting long. seams

all but the fore and aft

Dia. of rivet holes

8 7/8"

Whether punched or drilled

drilled

Pitch of rivets

3 1/4"

Rivets

83.3%

Per centage of strength of joint

87%

Thickness of shell crown plates

8 7/8"

Radius of do.

—

No. of Stays to do.

14

Dia. of stays

2 1/2"

Diameter of furnace Top

35"

Bottom

—

Length of furnace

80"

Thickness of furnace plates

6"

Description of

joint

welded

Thickness of furnace crown plates

15"

Stayed by

ladders

Working pressure of shell by rules

133 lbs

Working pressure of furnace by rules

129 lbs

Diameter of uptake

—

Thickness of uptake plates

—

Thickness of water tubes

3 3/8"

SPARE GEAR.

State the articles supplied:—

rod top & bottom end bolts, with nuts, 2 main bearing bolts, 1 set coupling bolts, 1 set feed & bilge pump valves, 1 slide valve spindle, eccentric with strap complete, one pair connecting rod brasses, 1 set link brasses, 1 air pump rod, 1 set air pump valves, 1 circular pump rod, 6 cylinder cover bolts, 24 tubes for Main Boilers, 24 tubes for Donkey Boiler, 26 condenser tubes, 1 set safety valves springs for Main & Donkey Boilers, 1 set fire bars for Main & Donkey Boilers, a large number of bolts, nuts, studs & rivets & iron assorted.

The foregoing is a correct description,

Flensburger Schiffbau-Gesellschaft.

Manufacturer.

Plan

Dates

During progress of

work in shops

24/7, 18/7, 19/7, 10/8, 22/8, 17/8, 27/8, 4/9, 14/9, 4/10, 12/10, 15/10, 21/10, 28/10, 4/11, 11/11, 18/11, 25/11, 2/12, 9/12, 16/12, 23/12, 30/12, 6/1, 13/1, 20/1, 27/1, 3/2, 10/2, 17/2, 24/2, 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, 1/12, 8/12, 15/12, 22/12, 29/12, 5/1, 12/1, 19/1, 26/1, 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, 16/12, 23/12, 30/12, 6/1, 13/1, 20/1, 27/1, 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, 2/5, 9/5, 16/5, 23/5, 30/5, 6/6, 13/6, 20/6, 27/6, 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, 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