

# REPORT ON MACHINERY.

764

No. 764

No. in Survey held at  
Reg. Book.

Hamburg

Date, first Survey 13<sup>th</sup> Sept 84 Last Survey 10<sup>th</sup> March 1885

Received at London Office WEDNES 13 MARCH 1885

(Number of Visits)

on the

S.S. Stockholm

Tons

Master Blohm Built at Hamburg By whom built Reihersstieg Schiffswerke

Engines made at Hamburg By whom made Reihersstieg Schiffswerke When built 1885

Boilers made at Hamburg By whom made Reihersstieg Schiffswerke When made 1885

Registered Horse Power 115 Owners H. A. Gehrckens Port belonging to Hamburg

## ENGINES, &c.—

Description of Engines Compound inverted direct acting with surface condenser  
Diameter of Cylinders 25" & 47" Length of Stroke 33" No. of Rev. per minute 80 Point of Cut off, High Pressure 1/2 Low Pressure 1/2  
Diameter of Screw shaft 8 1/2" Diam. of Tunnel shaft 8 1/4" Diam. of Crank shaft journals 8 1/2" Diam. of Crank pin 8 1/2" size of Crank webs 6 3/4" x 10 1/4"  
Diameter of screw 11" 3" Pitch of screw 12" 0" No. of blades 4 state whether moveable total surface  
No. of Feed pumps 2 diameter of ditto 3 1/4" Stroke 16 1/2" Can one be overhauled while the other is at work yes  
No. of Bilge pumps 2 diameter of ditto 3 1/4" Stroke 16 1/2" Can one be overhauled while the other is at work yes  
Where do they pump from forward pump engine & forehold, after pump engine & boiler bilge & after hold  
No. of Donkey Engines 1 Size of Pumps 4" 9" Stroke Where do they pump from all bilges, same as the engine pumps, forward & aft tank & forehold, also from sea & hot well  
Are all the bilge suction pipes fitted with roses yes Are the roses always accessible yes Are the sluices on Engine room bulkheads always accessible yes  
No. of bilge injections 1 and sizes 3" Are they connected to condenser, or to circulating pump one to condenser & one to circulating pump, the latter 4 1/2"  
How are the pumps worked  
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 yes  
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 How are they protected  
Are all pipes, cocks, valves, and pumps in connection with the machinery accessible at all times yes  
Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges none  
When were stern tube, propeller, screw shaft, and all connections examined in dry dock  
Is the screw shaft tunnel watertight yes and fitted with a sluice door yes worked from engine room

## BOILERS, &c.—

Number of Boilers 1 Description round multitubular Whether Steel or Iron  
Working Pressure 85 lbs Tested by hydraulic pressure to 160 lbs Date of test Feb 5<sup>th</sup> 1885  
Description of superheating apparatus or steam chest  
Can each boiler be worked separately Can the superheater be shut off and the boiler worked separately  
No. of square feet of fire grate surface in each boiler 58.50" Description of safety valves spring valves No. to each boiler 2  
Area of each valve 4" Are they fitted with easing gear yes No. of safety valves to superheater area of each valve  
Are they fitted with easing gear Smallest distance between boilers and bunkers or woodwork 9" Diameter of boilers 13" 9"  
Length of boilers 9' 11" description of riveting of shell long. seams triple riveted & lashed circum. seams double riveted thickness of shell plates 25/32"  
Diameter of rivet holes 1" whether punched or drilled drilled pitch of rivets 5 1/4" Lap of plating lashed  
Per centage of strength of longitudinal joint 81% working pressure of shell by rules 99 lbs size of manholes in shell none  
Size of compensating rings No. of Furnaces in each boiler 3  
Outside diameter 40 1/16" length, top 6' 11" bottom thickness of plates 17/32" description of joint common seams if rings are fitted  
Greatest length between rings working pressure of furnace by the rules 91 lbs combustion chamber plating, thickness, sides 15/32" back 15/32" top 15/32"  
Pitch of stays to ditto, sides 1 1/4" x 8" back 1 1/4" x 8" top If stays are fitted with nuts or riveted heads nuts working pressure of plating by rules 105 lbs  
Diameter of stays at smallest part 1 1/8" working pressure of ditto by rules 4979 lbs plates in steam space, thickness 3/4" forward 11/16" aft  
Pitch of stays to ditto 14" x 15" smallest part 2 1/8" how stays are secured in outside plates working pressure by rules 86 lbs diameter of stays at  
Greatest pitch of stays working pressure by rules 5028 lbs Front plates at bottom, thickness 5/8" Back plates, thickness 5/8"  
plates, front 11/16" back 11/16" Diameter of tubes 3 1/4" pitch of tubes 4 1/2" x 4 1/2" thickness of tube  
Diameter of Superheater or Steam chest length thickness of plates description of longitudinal joint diam. of rivet holes  
Pitch of rivets working pressure of shell by rules diameter of flue thickness of plates If stiffened with rings  
Distance between rings working pressure by rules end plates of superheater, or steam chest; thickness how stayed

Lloyd's Register Foundation

HAMM16-0273



DONKEY BOILER— Description *vertical boiler with 3 horizontal cross tubes*  
Made at *Hamburg* by whom made *Lubertig Schiffsverbaue Maschinenbau* made *1885* where fixed  
Working pressure *65 lb* tested by hydraulic pressure to *140 lb* No. of Certificate *Spt 27. 84* fire grate area *6, 89 sq* description of safety  
valves *lever loaded* No. of safety valves *2 1/2* area of each *1 1/2 sq* if fitted with easing gear if steam from main boilers can  
enter the donkey boiler *no* diameter of donkey boiler *5 1/2* length *9 3/4* description of riveting *double riveted*  
Thickness of shell plates *1/16* diameter of rivet holes *3/4* whether punched or drilled *drilled* pitch of rivets *2 3/4* lap of plating *common*  
per centage of strength of joint *72, 7%* thickness of crown plates *1/16* stayed by *stayed by 3 cross tubes*  
Diameter of furnace, top *4 9/16* bottom *4 9/16* length of furnace *5 1/2* thickness of plates *1/16* description of joint *common*  
Thickness of furnace crown plates *1/16* stayed by *common* working pressure of shell by rules *68, 7 lb*  
Working pressure of furnace by rules diameter of uptake thickness of plates thickness of water tubes

SPARE GEAR. State the articles supplied :—

The foregoing is a correct description,

Manufacturer.

*A. Lubertig*

General Remarks (State quality of workmanship, opinions as to class, &c.)

*The Engine and Boiler of this vessel are built according to Lloyd's Rules. The Boilers have been tested by hydraulic to double the working pressure. The safety valves have been adjusted under steam. The material of Boiler and Engine are of very good quality and of the very best workmanship and I can recommend the Vessel to be marked with **LMC 3, 85.** in the Register Book.*

*It is submitted that this vessel is eligible to have the notation LMC 3, 85 recorded*

*D.P.*

*19/3/85*

The amount of Entry Fee .. £ 1 : 10 : 0 received by me,  
Special .. .. £ 17 : 5 : 0  
Donkey Boiler Fee .. .. £ : :  
Certificate (if required) .. £ : : 18  
To be sent as per margin.

(Travelling Expenses, if any, £ )

Committee's Minute

FRIDAY 20 MARCH 1885

*+ M.C.*

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

*A. Libbertz*



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