

REPORT ON MACHINERY.

No. 588

No. in Survey held at
Reg. Book.

Kiel

Date, first Survey Jan '14 Last Survey May 17 1883

(Received at London Office 27 AUGUST 1883)

on the

S/S "Velox"

Tons 995.45

Master M. Kallisen

Built at Kieler Schiffswerft

When built 1883

Engines made at Kiel

By whom made Gebrüder Howaldt when made 1883

Boilers made at Dietrichs-dorf near Kiel

By whom made Geb. Howaldt when made 1883

Registered Horse Power 90

Owners H. Sandberg

Port belonging to Flensburg

ENGINES, &c.—

Description of Engines Surface condensing Compound

Diameter of Cylinders 23" x 43 1/4" Length of Stroke 30" No. of Rev. per minute 85 Point of Cut off, High Pressure 9 1/2" Low Pressure 15"

Diameter of Screw shaft 8 1/2" Diameter of Tunnel shaft 8 1/4" Diameter of Crank shaft journals 8 1/2" Diameter of Crank pin 8 1/2" size of Crank webs 11 x 6 1/4"

Diameter of screw 11 1/2" Pitch of screw 10 1/2" No. of blades 4 state whether moveable No total surface 103.3

No. of Feed pumps 2 diameter of ditto 3" Stroke 14" Can one be overhauled while the other is at work yes

No. of Bilge pumps 2 diameter of ditto 3" Stroke 14" Can one be overhauled while the other is at work yes

There do they pump from Fore-room, Engine-room, Aft-room & Tank

No. of Donkey Engines 1 Size of Pumps 3 1/2" x 6" Where do they pump from Fore-room, Engine-room, Aft-room & Tank

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 4" Are they connected to condenser, or to circulating pump Circulating pump

How are the pumps worked By means of a lever, connected to crosshead

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

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

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 yes

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 skylight

BOILERS, &c.—

Number of Boilers 2 Description Circular multitubular Boiler

Working Pressure 90 Tested by hydraulic pressure to 165 lbs Date of test April 14 1883

Description of superheating apparatus or steam chest Separated, fitted with 1 corrugated tube & cylindrical

Can each boiler be worked separately yes Can the superheater be shut off and the boiler worked separately No

Area of square feet of fire grate surface in each boiler 24, 22 Description of safety valves Direct spring loaded

No. to each boiler 2 area of each valve 7 1/2" Are they fitted with easing gear yes

No. of safety valves to superheater 1 area of each valve 4 1/2" are they fitted with easing gear No

Smallest distance between boilers and bunkers 4"

Diameter of boilers 8' 7 1/2" Length of boilers 7' 8 1/2" description of riveting of shell long. seams double riveted circum. seams single riveted

Thickness of shell plates 3/4" diameter of rivet holes 1 3/16" whether punched or drilled drilled pitch of rivets 3 1/16"

Thickness of plating 3 1/2" per centage of strength of longitudinal joint 70 working pressure of shell by rules

Size of manholes in shell 14" x 10 1/4" size of compensating rings 6 1/2" x 3/4"

No. of Furnaces in each boiler 1 outside diameter corrugated length, top 7' 0" bottom 7' 0"

Thickness of plates 7/16" description of joint welded if rings are fitted — greatest length between rings —

Working pressure of furnace by the rules Corrugated furnaces

Combustion chamber plating, thickness, sides 1/16" back 1/16" top 1/16"

Thickness of stays to ditto, sides 1' x 7" back 7/8" top None, but vaulted top plate

Are stays fitted with nuts or riveted heads riveted heads working pressure of plating by rules 285 lbs

Diameter of stays at smallest part 1 1/8" working pressure of ditto by rules 40 84 lbs

Thickness of plates in steam space, thickness 3/4" pitch of stays to ditto 13 3/8" x 15 3/4" stays are secured double nuts & washers

Working pressure by rules 93 lbs diameter of stays at smallest part 2" working pressure by rules 5600

Bottom plates at bottom, thickness 3/4" Back plates, thickness 3/4" greatest pitch of stays 7/8" working pressure by rules 285 lbs

Diameter of tubes $3\frac{1}{4}$ outside diam pitch of tubes $4\frac{3}{4}$ " thickness of tube plates, front $\frac{3}{4}$ " back $\frac{3}{4}$ "
 How stayed Stay tubes pitch of stays 12" width of water spaces
 Diameter of Superheater or Steam chest 6' 7" length 7"
 Thickness of plates $\frac{1}{16}$ " description of longitudinal joint double riveted diameter of rivet holes 1" pitch of rivets 3"
 Working pressure of shell by rules Diameter of flue 3' 7" thickness of plates $\frac{7}{16}$ "
 If stiffened with rings Corrugated distance between rings Working pressure by rules
 End plates of superheater, or steam chest; thickness $\frac{1}{16}$ How stayed By the flue
 Superheater or steam chest; how connected to boiler By the smoke box, also fitted by a column to the Keelson
DONKEY BOILER— 1 Description Cylindrical, upright, multitubular
 Made at Dietrichsdorf 7/4 Kiel By whom made C. H. Howaldt when made 1883
 Where fixed In the Stoker room working pressure 90 lbs Tested by hydraulic pressure to 165 lbs No. of Certificate
 Fire grate area 9 sq Description of safety valves direct spring loaded No. of safety valves 1 area of each 7 sq
 If fitted with easing gear yes If steam from main boilers can enter the donkey boiler No
 Diameter of donkey boiler 4' 11" length 8' 4" description of riveting long seams double riveted, circular seams, single riveted.
 thickness of shell plates $\frac{1}{2}$ " diameter of rivet holes 1" whether punched or drilled drilled
 pitch of rivets 3" lap of plating 3" per centage of strength of joint 67
 thickness of crown plates $2\frac{3}{32}$ " stayed by the stay tubes
 Diameter of furnace, top cylindrical bottom 3' 11 $\frac{1}{4}$ " length of furnace 2' 5 $\frac{1}{2}$ "
 thickness of plates $\frac{3}{8}$ " description of joint single riveted, lap-joint
 thickness of furnace crown plates $2\frac{3}{32}$ " stayed by the stay tubes
 Working pressure of shell by rules working pressure of furnace by rules
 diameter of uptake thickness of plates thickness of water tubes $\frac{5}{32}$ ", 3" inner diam.

The foregoing is a correct description,

Quintin Howaldt Manufacturer.

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

The Engine and Boilers of this vessel are of very good material and workmanship and built according to the Rules under Special Survey.

The Boilers have been tested by me under hydraulic pressure on the 4th of April and were found tight. The Safety-valves were adjusted by me under steam on the 17th of May, and in my opinion, the vessel ought to be entered

LMC. 5. 83 in the Register Book.

It is submitted that
 the vessel is tight
 & have the notification
 + L.M.C. 5.83 recorded
 27/5/83

The amount of Entry Fee .. £ 200 : received by me,

Special .. £ 13:10:0

Certificate (if required) .. £ : : 18

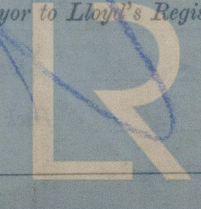
To be sent as per margin.

(Travelling Expenses, if any, £ 2. 10. 0)

Committee's Minute

4 SEPTEMBER 1883 18

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



Lloyd's Register
Foundation