

M. L. 1886 894

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## REPORT ON MACHINERY.

o. 1183

Received at London Office

MONDAY 5 APRIL 1886

No. in Survey held at Kinderdijk

Date, first Survey 10 July 75

Last Survey 22 March 1886

g. Book.

(Number of Visits)

on the Iron Tump Hopper, c<sup>o</sup> 402".

Tons

Built at Kinderdijk By whom built J. & K. Smit When built 1886  
 Made at Kinderdijk By whom made Diepenveen, Hels & Smit when made 1886  
 Made at Kinderdijk By whom made Diepenveen, Hels & Smit when made 1886  
 Dressed Horse Power 50. Owners C. Illies & Co. Port belonging to Yokohama

If of Iron or Steel give Scantlin  
Iron, mode of riveting, quality of Mate  
notes.

**GINES, &c.—** *Compound Inverted Surface Condensing.*  
 Diameter of Cylinders 18" x 24" Length of Stroke 31" No. of Rev. per minute 140 Point of Cut off, High Pressure 5/8 Low Pressure 7/8  
 Diameter of Screw shaft 7" Diam. of Tunnel shaft 4" Diam. of Crank shaft journals 6 1/4" Diam. of Crank pin 6 1/4" size of Crank webs 8 1/2" x 3 1/2"  
 Diameter of screw 7 ft Pitch of screw 9 feet No. of blades 4 state whether moveable Not total surface 23 1/2 ft  
 of Feed pumps 2 diameter of ditto 3" Stroke 13" Can one be overhauled while the other is at work No  
 of Bilge pumps 2 diameter of ditto 3" Stroke 13" Can one be overhauled while the other is at work No.  
 Where do they pump from From three roses in bilges. In garrison. In addition to ejector.  
 of Donkey Engines One Size of Pumps 2 1/2" x 6" all Act Where do they pump from Sea and  
 forward fresh water tank.

height above deck? equal.  
 all the bilge suction pipes fitted with roses Yes Are the roses always accessible Yes Are the sluices on Engine room bulkheads always accessible  
 scupper of bilge injections One and sizes 2" Are they connected to condenser, or to circulating pump to section of centrifugal p.  
 are the pumps worked by levers from both Crossheads.  
 all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Both  
 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  
 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.  
 all pipes are carried through the bunkers No How are they protected —  
 all pipes, cocks, valves, and pumps in connection with the machinery accessible at all times Yes  
 the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges Yes.  
 were stern tube, propeller, screw shaft, and all connections examined in dry dock Last seen before launch of vessel.  
 screw shaft tunnel watertight No tunnel and fitted with a sluice door worked from —

**BOILERS, &c.—**  
 well done  
 number of Boilers two Description Cylindrical tubular Whether Steel or Iron Iron (i)  
 working Pressure 90 lbs Tested by hydraulic pressure to 180 lbs Date of test 7 January 1886.  
 she has three water-tube superheating apparatus or steam chest Cylindrical Horizontal Steam chest.  
 each boiler be worked separately No Can the superheater be shut off and the boiler worked separately No.  
 square feet of fire grate surface in each boiler 31 1/2 ft Description of safety valves Lever & spring No. to each boiler 2  
 of each valve 16 1/2" Are they fitted with easing gear Yes No. of safety valves to superheater — area of each valve —  
 key fitted with easing gear — Smallest distance between boilers and bunkers or woodwork two feet Diameter of boilers 8' 4"  
 of boilers 10" description of riveting of shell long. seams trebl. riv. lap circum. seams dbl riv. lap Thickness of shell plates 15/16" —  
 ter of rivet holes 1" whether punched or drilled drilled pitch of rivets 4" Lap of plating 6 1/2"  
 stage of strength of longitudinal joint 75% working pressure of shell by rules 97 lbs size of manholes in shell 12" x 16"  
 of compensating rings 5 1/2" x 13/16" double riveted No. of Furnaces in each boiler 2.  
 e diameter 2' 4 1/8" length, top 5' 9" bottom 10" thickness of plates 11/16" description of joint 101 riv. lap if rings are fitted No  
 st length between rings — working pressure of furnace by the rules 93 combustion chamber plating, thickness, sides 1 1/2" back 1 1/2" top 1 1/2"  
 of stays to ditto, sides 9" back 9" top 9" If stays are fitted with nuts or riveted heads riv heads working pressure of plating by  
 es 100 Diameter of stays at smallest part 1.35 working pressure of ditto by rules 100 end plates in steam space, thickness 11/16"  
 of stays to ditto 11" x 14 1/4" how stays are secured nuts riv wash working pressure by rules 95 lbs diameter of stays at  
 allest part 1 1/2" working pressure by rules 125 Front plates at bottom, thickness 5 1/8" Back plates, thickness 5 1/8"  
 st pitch of stays 10" working pressure by rules 100 Diameter of tubes 3 3/4" mts pitch of tubes 4 1/4" thickness of tube  
 te, front 9 1/2" back 5 1/8" how stayed 17 1/2" pitch of stays 12 3/4" x 8 1/2" width of water spaces 1"  
 Register of British and Foreigner of Superheater or Steam chest 5 ft length 7' 4" thickness of plates 1/2 description of longitudinal joint 101 riv. lap diam. of rivet holes 11/16" —  
 submitted that appears worth A. I. Steam Hopper 10" between rings — working pressure by rules — end plates of superheater, or steam chest; thickness 1/2" how stayed 101 riv. lap  
 A. I. Steam Hopper 10" between rings — working pressure by rules — end plates of superheater, or steam chest; thickness 1/2" how stayed 101 riv. lap  
 recommended. stay 2" diam. Superheater or steam chest; how connected to boiler Copper pipes.

## REPORT

DONKEY BOILER— Description

None.

Made at

by whom made

when made

where fixed

916

Working pressure

tested by hydraulic pressure to

No. of Certificate

fire grate area

description of safe book

Survey held at

valves

No. of safety valves

area of each

if fitted with easing gear

if steam from main boilers etc.

reports No. 894 1/2

on the 1st day of 1896

enter the donkey boiler

diameter of donkey boiler

length

description of riveting

NNAGE:-

Thickness of shell plates

diameter of rivet holes

whether punched or drilled

pitch of rivets

lap of plating

Built at

Owners

per centage of strength of joint

thickness of crown plates

stayed by

Diameter of furnace, top

bottom

length of furnace

thickness of plates

description of joint

Thickness of furnace crown plates

stayed by

working pressure of shell by rules

Working pressure of furnace by rules

diameter of uptake

thickness of plates

thickness of water tubes

SPARE GEAR. State the articles supplied:— 2 propellers; 1 tail end shaft & bush; 1 set of valves for air circulating, feed & bilge pumps; 2 dor. boilertubes; 3 dor. Condenser tubes; 100 ft. iron Circulating pump bucket & rod; 2 Connecting rod top & bottom end bolts & nuts; 2 Main bearing bolts; 1 set of Coupling bolts; 1 set of rings & springs for each piston; 1 ton. of furnace

The foregoing is a correct description, a quantity of fastened bolts & iron of various sizes

Discovered by Mr. Smith Manufacturer:

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

The machinery and Boilers of this vessel were tried under full steam and proved to be in good working condition, they are now being taken to pieces for shipment for Yokohama.

The materials used and the workmanship being good render this vessel eligible, in my opinion, to be recorded in the Society's Register book with:

\* I.M.C. 4.86

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