

Mr. Loo's 8: 894

REPORT ON MACHINERY.

894

No. 1183

Received at London Office MONDAY 5 APRIL 1886

No. in Survey held at

Kinderdyk

Date, first Survey 10 July 85

Last Survey 22 March 1886

1886

g. Book.

on the

Iron Pump Hopper, 8° 40' 2"

Tons

ster

Built at

Kinderdyk

By whom built

J. K. Smit

When built

1886

gives made at

Kinderdyk

By whom made

Dieperveen, Hels & Smit

when made

1886

gives made at

Kinderdyk

By whom made

Dieperveen, Hels & Smit

when made

1886

Registered Horse Power

50.

Owners

C. Illies & Co.

Port belonging to

Yokohama

GINES, &c.—

Description of Engines

Compound Inverted Surface Condensing.

Diameter of Cylinders

18" & 24"

Length of Stroke

21"

No. of Rev. per minute

140

Point of Cut off, High Pressure

5/8

Low Pressure

3/8

Diameter of Screw shaft

4"

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 3/8"

Diameter of screw

4 1/2"

Pitch of screw

9 feet

No. of blades

4

state whether moveable

no

total surface

25 sq ft

No. of Feed pumps

2

diameter of ditto

3"

Stroke

13"

Can one be overhauled while the other is at work

no

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, Engine room. In addition one Ejector.

No. of Donkey Engines

One

Size of Pumps

2 1/2" x 6"

Where do they pump from

Sea and

forward fresh water 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

One

and sizes

2"

Are they connected to condenser, or to circulating pump

to suction of centrifugal p.

Are the pumps worked

by levers from both Crossheads.

Are all connections with the sea direct on the skin of the ship

yes

Are they Valves or Cocks

Both.

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 the blow off cocks fitted with a spigot and brass covering plate

yes.

Are the pipes 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.

Were stern tube, propeller, screw shaft, and all connections examined in dry dock

Last seen before launch of vessel.

Are the screw shaft tunnel watertight

no tunnel

and fitted with a sluice door

worked from

—

BOILERS, &c.—

No. 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.

Description of superheating apparatus or steam chest

Cylindrical Horizontal Steam chest.

Can each boiler be worked separately

no

Can the superheater be shut off and the boiler worked separately

no.

Area of square feet of fire grate surface in each boiler

31 sq ft

Description of safety valves

Lever & spring

No. to each boiler

2

Area of each valve

16 sq"

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

two feet

Diameter of boilers

8' 4"

No. of boilers

10'

description of riveting of shell long. seams

trebl. riv lap

circum. seams

dbl riv lap

Thickness of shell plates

1 1/16"

Diameter of rivet holes

1"

whether punched or drilled

drilled

pitch of rivets

4"

Lap of plating

6 1/2"

Percentage of strength of longitudinal joint

75 %

working pressure of shell by rules

98 lbs

size of manholes in shell

12" x 16"

No. of compensating rings

5 1/2" x 13/16"

double riveted

No. of Furnaces in each boiler

2.

Inside diameter

2' 7 1/8"

length, top

5' 9"

bottom

thickness of plates

7/16"

description of joint

sqd riv lap

if rings are fitted

no

Least length between rings

—

working pressure of furnace by the rules

93

combustion chamber plating, thickness, sides

7/16"

back

7/16"

top

7/16"

No. of stays to ditto, sides

9"

back

9"

top

9" 8"

If stays are fitted with nuts or riveted heads

riv heads

working pressure of plating by

—

End plates

100

Diameter of stays at smallest part

1.35

working pressure of ditto by rules

100

end plates in steam space, thickness

7/16"

No. 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

—

Smallest part

2 1/2"

working pressure by rules

125

Front plates at bottom, thickness

5/8"

Back plates, thickness

5/8"

Least pitch of stays

10"

working pressure by rules

100

Diameter of tubes

3 1/4"

pitch of tubes

4 1/4"

Thickness of tube

—

how stayed

2 1/2" x 8"

pitch of stays

12 1/4" x 8"

width of water spaces

1"

No. of Superheater or Steam chest

5 1/4"

length

7' 7"

thickness of plates

1/2"

description of longitudinal joint

dbl riv lap

diam. of rivet holes

1 1/16"

No. of rivets

2 1/16"

working pressure of shell by rules

91

diameter of flue

—

thickness of plates

—

If stiffened with rings

—

Between rings

—

working pressure by rules

—

end plates of superheater, or steam chest; thickness

1/2"

