

Mr. Loos's No. 754⁶

REPORT ON MACHINERY.

No. 46.

No. in Survey held at Flushing Date, first Survey Oct 30 - 83 Last Survey 14 June 1884
Reg. Book. (Number of Visits 13)

on the Iron screw Steamer "Wolf" Tons 620
397

Master J. H. Brown Built at Flushing By whom built Royal Ship building When built 1884

Engines made at Flushing By whom made S & Engineering Coy when made 1884

Boilers made at A. By whom made "the Scheldt" when made 1884

Registered Horse Power 90 Owners Edmund S. Cohen Port belonging to Liverpool

ENGINES, &c.—

Description of Engines Compound Inverted Surface Condensing
Diameter of Cylinders 22" x 41" Length of Stroke 30" No. of Rev. per minute 85 Point of Cut off, High Pressure 60% Low Pressure 55%
Diameter of Screw shaft 8" Diam. of Tunnel shaft 7 1/4" Diam. of Crank shaft journals 8" Diam. of Crank pin 8 1/2" size of Crank webs 10" x 5 7/8"
Diameter of screws 10 feet Pitch of screw 15 feet No. of blades four state whether moveable not total surface 32 sq ft
No. of Feed pumps 2 diameter of ditto 3 1/4" Stroke 12" Can one be overhauled while the other is at work yes
No. of Bilge pumps 2 diameter of ditto 3 1/4" Stroke 12" Can one be overhauled while the other is at work yes
Where do they pump from Eng. room Port, 103 & midship and all compartments of ship
No. of Donkey Engines 1 & 1/2 Size of Pumps 10 in. 3 1/2" x 7" dbl. gate Where do they pump from as above & from sea.
Pulverometer as above, ballast tanks and Condenser.
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 4 1/2" Are they connected to condenser, or to circulating pump to Condenser.
How are the pumps worked by levers from L. F. Crosshead.
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 air: above, Circ: below.
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 platform.

BOILERS, &c.—

Number of Boilers One Description Cylindrical tubular Whether Steel or Iron Steel
Working Pressure 95 lbs Tested by hydraulic pressure to 190 lbs Date of test Lockley 84 Cert No. 34
Description of superheating apparatus or steam chest Cylindrical Horizontal
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 55 sq ft Description of safety valves Adms spring No. to each boiler two
Area of each valve 14.19 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 10" Diameter of boilers 15' - 1 7/8"
Length of boilers 9' 4 1/4" description of riveting of shell long. seams Quadr. Lap circum. seams dbl lap Thickness of shell plates 1 1/16"
Diameter of rivet holes 1 1/8" whether punched or drilled drilled pitch of rivets 5 5/8" Lap of plating 6 1/2"
Percentage of strength of longitudinal joint 79 1/2% working pressure of shell by rules 98 lbs size of manholes in shell 15" x 12"
Size of compensating rings 6" x 1 3/16" No. of Furnaces in each boiler 3
Outside diameter 3' - 2" length, top 6' bottom — thickness of plates 1/2" description of joint dbl but, 191 riv if rings are fitted no
Greatest length between rings — working pressure of furnace by the rules 98 combustion chamber plating, thickness, sides 1/2" back 1/2" top 1/2"
Pitch of stays to ditto, sides 7 1/2" x 8" back 7 1/2" x 8" top 7 1/2" x 8" stays are fitted with nuts or riveted heads riveted h. working pressure of plating by rules 100 Diameter of stays at smallest part 1 1/4" working pressure of ditto by rules 153 end plates in steam space, thickness 3/4"
Pitch of stays to ditto 15" x 15" how stays are secured dbl h & nut working pressure by rules 107 lbs diameter of stays at smallest part 2" working pressure by rules 111 lbs Front plates at bottom, thickness 7/8" Back plates, thickness 5/8"
Greatest pitch of stays 8" x 10" working pressure by rules 100 Diameter of tubes 3 1/4" ext pitch of tubes 4 1/2" thickness of tube plates, front 3/4" back 3/4" how stayed scr. tub pitch of stays 13 1/2" width of water spaces 1 1/4"
Diameter of Superheater or Steam chest 3' - 6 3/4" length 5' - 6" thickness of plates 3/8" description of longitudinal joint lap. dbl diam. of rivet holes 3/4"
Pitch of rivets 2 3/4" working pressure of shell by rules 130 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 1/2" how stayed one stay
"Smallest diam; nuts & washers Superheater or steam chest; how connected to boiler Iron neck -
x discharge valve circulating pump & pulverometer in one.



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DONKEY BOLLER—

Description

Vertical boiler with three water tubes.

Made at *Flushing*

by whom made

same firm

when made *1884*

where fixed *form. stoheln*

Working pressure

70 lbs

tested by hydraulic pressure to *160*

No. of Certificate

41

fire grate area

14.18

description of safety

valves

Lever & Weight

No. of safety valves

two

area of each

3.98

if fitted with easing gear *yes* if steam from main boilers can

enter the donkey boiler *no return*

diameter of donkey boiler

5'-6"

length

8'-2"

description of riveting *double lap*

Thickness of shell plates

1/2"

diameter of rivet holes

3/4"

whether punched or drilled *punched*

pitch of rivets

2 1/2"

lap of plating

3 1/4"

per centage of strength of joint

40%

thickness of crown plates

1/2"

stayed by

6-1 1/4" stays to top

Diameter of furnace, top

4'-1"

bottom

4'-7"

length of furnace

4'-6"

thickness of plates

1/2"

description of joint *single riv. lap*

Thickness of furnace crown plates

1/2"

stayed by

above stays

working pressure of shell by rules *82 lbs*

Working pressure of furnace by rules

95 lbs

diameter of uptake

15 1/2"

thickness of plates

5/16"

thickness of water tubes *5/16"*

SPARE GEAR.

State the articles supplied:—

2 Safety valve springs; 2 d. for escapes; 1 set

of Coupling bolts; 1 H.F. slide spindle; 1 set

crankpin brasses; 2 bolts for

main bearings; 2 d. for connecting rod top & bottom ends; 2 feed pump

valves & seats; 1 propeller.

The foregoing is a correct description,

ROYAL SHIPBUILDING & ENGINEERING CO.

Manufacturer.

"THE SCHELDT"

J. van Nieuwen

General Remarks

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

The materials used and the workmanship being of a first class quality and the engine and boiler proving to work satisfactory on a trial at sea this vessel is eligible in my opinion to be recorded in the Society's Register book with: I.M.C. 6.84.

The amount of Entry Fee

£ 2

received by me,

£ 13

10

Special

£ 2

2

Donkey Boiler Fee

£ 2

2

Certificate (required)

£ 2

6

18

To be sent as per margin

(Travelling Expenses, if any, £ *6-4-11*)

Committee's Minute

17 June 1884

+ 2 M.C.

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