

REPORT ON MACHINERY.

Port of *Rotterdam*Received at London Office *1901*No. in Survey held at *Capelle 4d Ysel*Date, first Survey *8 August* Last Survey *19 Sept 1901*

Reg. Book.

on the *S.S. N° 203.*(Number of Visits *two*)Tons { Gross *not yet*
Net *measured*
When built *1901*Master *not appointed* Built at *Capelle 4d Ysel* By whom built *A. Vuyk.*Engines made at *South Shields* By whom made *Holborn Engineering works.* when madeBoilers made at *South Shields* By whom made *Holborn Engineering works.* when made

Registered Horse Power

Owners *Shipping Investments Co.*Port belonging to *London*

Nom. Horse Power as per Section 28

Is Refrigerating Machinery fitted *no*Is Electric Light fitted *no.*

ENGINES, &c.—Description of Engines

Will be fitted at South Shields

No. of Cylinders

No. of Cranks

Dia. of Cylinders

Length of Stroke

Revs. per minute

Dia. of Screw shaft

as per rule

Lgth. of stern bush

Dia. of Tunnel shaft

as per rule

Dia. of Crank shaft journals

as per rule

Dia. of Crank pin

Size of Crank webs

Dia. of thrust shaft under

collars

Dia. of screw

Pitch of screw

No. of blades

State whether moveable

Total surface

No. of Feed pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Bilge pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Donkey Engines

Sizes of Pumps

No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room

to fit at South Shields

In Holds, &c.

*In main hold, 2-2½"; in**after hold 2-2½"; after well 1-2½"*

No. of bilge injections

sizes

Connected to condenser, or to circulating pump

Is a separate donkey suction fitted in Engine room & size

Are all the bilge suction pipes fitted with roses

Are the roses in Engine room always accessible

Are the sluices on Engine room bulkheads always accessible

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

Are they Valves or Cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

Are the discharge pipes above or below the deep water line

Are they each fitted with a discharge valve always accessible on the plating of the vessel

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

What pipes are carried through the bunkers

How are they protected

Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times

Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges

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

Is the screw shaft tunnel watertight

Is it fitted with a watertight door

worked from

BOILERS, &c.—

(Letter for record

) Total Heating Surface of Boilers

Is forced draft fitted

No. and Description of Boilers

will be fitted at South Shields

Working Pressure

Tested by hydraulic pressure to

Date of test

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of safety valves to

each boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

Smallest distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

Length

Material of shell plates

Thickness

Range of tensile strength

Are they welded or flanged

Descrip. of riveting: cir. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

Per centages of strength of longitudinal joint

rivets

Working pressure of shell by rules

Size of manhole in shell

Size of compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

Length of plain part

top

Thickness of plates

crown

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space:

Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch across wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

thickness of girder at centre

Length as per rule

Distance apart

Number and pitch of Stays in each

Working pressure by rules

Superheater or Steam chest; how connected to boiler

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

holes

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

If stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

DONKEY BOILER— No. *One* Description *Vertical cross tube boiler.*
 Made at *Berwick on Tweed* By whom made *Geo Black.* When made *1901* Where fixed *Stothfold*
 Working pressure *100* tested by hydraulic pressure to *200* No. of Certificate *498* Fire grate area *24.5* Description of safety valves *Direct spring*
 No. of safety valves *One* Area of each *12.56* Pressure to which they are adjusted *100 lb* If fitted with easing gear *yes* If steam from main boilers can enter the donkey boiler *no* Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile strength
 Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets
 Lap of plating Per centage of strength of joint Rivets Plates Thickness of shell crown plates Radius of do. No. of Stays to do.
 Dia. of stays. Diameter of furnace Top Bottom Length of furnace Thickness of furnace 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 uptake plates Thickness of water tubes

SPARE GEAR. State the articles supplied:—
Mark on Donkey boiler - Boiler No. 254 - No. 498 Lloyd's test. 200 lbs. T. L. T. 8. 4. 01.

The foregoing is a correct description,
 Manufacturer.

Dates of Survey while building
 During progress of work in shops - -
 During erection on board vessel - -
 Total No. of visits

Is the approved plan of main boiler forwarded herewith
 " " " donkey " " "

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

A temporary funnel has been made to get steam for adjusting of safety valve and to work anchor wind, winches & steering gear.
The pipe arrangement has only been led to the Engineer room & Boiler space bulkheads and requires to be further dealt with at Smith Shields.
The approved plan of this arrangement was forwarded to the London Office together with report No. 3210⁶ on the sister vessel "Temple".

Certificate (if requested) to be sent to
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee. £ : : When applied for, 19
 Special Fee. £ 2 2 :
 Donkey Boiler Fee £ : : When received, 19
 Travelling Expenses (if any) £ 5 : 25/2/02

W. F. D. van Ollefen
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute TUES. FEB 11 1902 FRI. FEB 14 1902 TUES. MAR 11 1902

Assigned *See Rot. (No. 676) 1st Classy Report & No. 42617*