

REPORT ON MACHINERY.

MUN. AUG 26 1901

Port of *Newcastle*

Received at London Office MON. 2 JUL 1900

No. in Survey held at *Wallsend*

Date, first Survey *April 5th 1900* Last Survey *June 6th 1900.*

nsib. Book.

on the

(*Austrian Lloyd's 1500 62*)

Tons { Gross
Net

Built at

By whom built

When built

gines made at

By whom made

when made

ilers made at *Wallsend*

By whom made *Wallsend Shipway Co*

when made *1900.*

gistered Horse Power

Owners

Port belonging to

m. Horse Power as per Section 28

Is Refrigerating Machinery fitted

Is Electric Light fitted

GINES, &c.—Description of Engines

No. of Cylinders

No. of Cranks

No. of Cylinders

Length of Stroke

Revs. per minute

Dia. of Screw shaft

as per rule

Lgth. of stern bush

No. 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

ars

Dia. of screw

Pitch of screw

No. of blades

State whether moveable

Total surface

of Feed pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

of Bilge pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

of Donkey Engines

Sizes of Pumps

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

Engine Room

In Holds, &c.

of bilge injections

sizes

Connected to condenser, or to circulating pump

Is a separate donkey suction fitted in Engine room & size

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

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

Are they Valves or Cocks

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

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

it pipes are carried through the bunkers

How are they protected

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

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

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

Is the screw shaft tunnel watertight

fitted with a watertight door

worked from

ERS, &c.—

(Letter for record *S*)

Total Heating Surface of Boilers

7690 ft

Is forced draft fitted

and Description of Boilers *3 Single ended, mult.*

Working Pressure

200 lb

Tested by hydraulic pressure to

of test

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of safety valves to

boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

test distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

15-6

Length

12-0

Material of shell plates *Steel*

ness *1 1/2*

Range of tensile strength

29-32

Are they welded or flanged

No

Descrip. of riveting: cir. seams

TR lap

long. seams

DBS, TR

ter of rivet holes in long. seams

1 1/2

Pitch of rivets

9 1/2

Lap of plates or width of butt straps

22 1/4

antages of strength of longitudinal joint

rivets

94-0

Working pressure of shell by rules

218 lb

Size of manhole in shell

16 x 12

compensating ring

8 x 1 1/2

No. and Description of Furnaces in each boiler

3 Brightons

Material *Steel* Outside diameter

45 3/4

of plain part

top

✓

Thickness of plates

crown

5

Description of longitudinal joint

welded

No. of strengthening rings

two

ing pressure of furnace by the rules

205 lb

Combustion chamber plates: Material *Steel* Thickness: Sides

5/8

Back

5/8

Top

5/8

Bottom

11/16

of stays to ditto: Sides

8 x 8

Back

8 x 8

Top

8 x 7 5/8

If stays are fitted with nuts or riveted heads

Working pressure by rules

221 lb

ial of stays

Steel

Diameter at smallest part

1 9/16

Area supported by each stay

64

Working pressure by rules

293 lb

End plates in steam space:

ial *Steel*

Thickness

1 1/2

Pitch of stays

16 x 15 1/2

How are stays secured

DN+V

Working pressure by rules

200 lb

Material of stays

Steel

that at smallest part

2 3/32

Area supported by each stay

248

Working pressure by rules

205 lb

Material of Front plates at bottom

Steel

Material of Lower back plate

Steel

Thickness

1/16

Greatest pitch of stays

13 1/2

Working pressure of plate by rules

281 lb

er of tubes

2 1/2

Pitch of tubes

3 3/4 x 3 3/32

Material of tube plates

Steel

Thickness: Front

3/32

Back

3/4

Mean pitch of stays

7 3/16

across wide water spaces

13 1/2

Working pressures by rules

200 lb

Girders to Chamber tops: Material *Steel* Depth and

as of girder at centre

9 1/2 x 5/8

Length as per rule

34 5/8

Distance apart

8

Number and pitch of Stays in each

3-7 5/8

Working pressure by rules

209 lb

Superheater or Steam chest; how connected to boiler

None

Can the superheater be shut off and the boiler worked

Yes

Diameter

Length

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

ed 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

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

g pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear