

REPORT ON MACHINERY.

Port of Greenock

Received at London Office

No. in Survey held at Greenock

Date, first Survey

19th March 1901

Last Survey

19th March 1902

Book.

"Albion"

(Number of Visits)

73

on the

Screw Steamer "Albion"

Tons

Gross

Net

When built 1902

ster

Built at Port Glasgow By whom built Russell & Co.

ines made at

Greenock

By whom made

John G. Muir & Co.

when made

1902

lers made at

Paisley

By whom made

A. J. Craig & Co.

when made

1902

istered Horse Power

Owners

Port belonging to

Horse Power as per Section 28

304

Is Refrigerating Machinery fitted

No

Is Electric Light fitted

No

INES, &c.—Description of Engines

Triplic Expansion

No. of Cylinders

Three

No. of Cranks

Three

of Cylinders

24"-40"-65"

Length of Stroke

45"

Revs. per minute

69

Dia. of Screw shaft

as per rule 14 1/2"

Lgth. of stern bush

57"

of Tunnel shaft

as per rule 12 1/2"

Dia. of Crank shaft journals

as per rule 12 1/2"

Dia. of Crank pin

12 1/2"

Size of Crank webs

19 1/2"

Dia. of thrust shaft under

12 1/2"

of Feed pumps

2

Diameter of ditto

4"

Stroke

24"

Can one be overhauled while the other is at work

Yes

of Bilge pumps

2

Diameter of ditto

4"

Stroke

24"

Can one be overhauled while the other is at work

Yes

of Donkey Engines

Two

Sizes of Pump

Ballast (11 1/2" x 12" x 10")Donkey (6 1/2" x 4" x 6")

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

In Holds, &c. 4 1/2" Hold: 2-3 1/2" dia. 4 1/2" Hold: 2-3 1/2" dia.

Engine Room

Four: 3 1/2" dia.

In Holds, &c.

4 1/2" Hold: 2-3 1/2" dia. 4 1/2" Hold: 2-3 1/2" dia.

of bilge injections

1 sizes 6"

Connected to condenser, or to circulating pump

C.P.

Is a separate donkey suction fitted in Engine room & size

Yes 3 1/2"

all the bilge suction pipes fitted with roses

Yes

Are the roses in Engine room always accessible

Yes

Are the sluices on Engine room bulkheads always accessible

Yes

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

t pipes are carried through the bunkers

Hold Suctions

How are they protected

By Wood casing

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

Yes

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

Yes

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

Yes

Is the screw shaft tunnel watertight

Yes

fitted with a watertight door

Yes

worked from

Top platform in Engine Room

LERS, &c.—

(Letter for record

S

Total Heating Surface of Boilers

4400 sq. ft.

Is forced draft fitted

No

and Description of Boilers

See Glasgow Report

Working Pressure

180 lb

Tested by hydraulic pressure to

360 lb

of test

17/2/02

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

64 sq. ft.

No. and Description of safety valves to

boiler 2: Direct Spring

boiler

2: Direct Spring

Area of each valve

7.06"

Pressure to which they are adjusted

185 lb

Are they fitted with easing gear

Yes

least distance between boilers or uptakes and bunkers or woodwork

10"

Mean dia. of boilers

✓

Length

✓

Material of shell plates

✓

ness

Range of tensile strength

Are they welded or flanged

✓

Descrip. of riveting: cir. seams

✓

long. seams

✓

eter of rivet holes in long. seams

Pitch of rivets

✓

Lap of plates or width of butt straps

✓

entages of strength of longitudinal joint

rivets

✓

Working pressure of shell by rules

✓

Size of manhole in shell

✓

of compensating ring

✓

No. and Description of Furnaces in each boiler

✓

Material

✓

Outside diameter

✓

h of plain part

✓top

Thickness of plates

✓bottom

Description of longitudinal joint

✓

No. of strengthening rings

✓

ing pressure of furnace by the rules

Combustion chamber plates: Material

✓

Thickness: Sides

✓

Back

✓

Top

✓

Bottom

✓

of stays to ditto: Sides

✓Back✓Top✓

If stays are fitted with nuts or riveted heads

✓

Working pressure by rules

✓

ial of stays

Diameter at smallest part

✓

Area supported by each stay

✓

Working pressure by rules

✓

End plates in steam space:

✓

ial

Thickness

✓

Pitch of stays

✓

How are stays secured

✓

Working pressure by rules

✓

Material of stays

✓

eter at smallest part

✓

Area supported by each stay

✓

Working pressure by rules

✓

Material of Front plates at bottom

✓

ness

Material of Lower back plate

✓

Thickness

✓

Greatest pitch of stays

✓

Working pressure of plate by rules

✓

ter of tubes

Pitch of tubes

✓

Material of tube plates

✓

Thickness: Front

✓

Back

✓

Mean pitch of stays

✓

across wide water spaces

✓

Working pressures by rules

✓

Girders to Chamber tops: Material

✓

Depth and

✓

ess of girder at centre

✓

Length as per rule

✓

Distance apart

✓

Number and pitch of Stays in each

✓

ing pressure by rules

✓

Superheater or Steam chest; how connected to boiler

✓

Can the superheater be shut off and the boiler worked

✓

tely

Diameter

✓

Length

✓

Thickness of shell plates

✓

Material

✓

Description of longitudinal joint

✓

Diam. of rivet

✓

Pitch of rivets

✓

Working pressure of shell by rules

✓

Diameter of flue

✓

Material of flue plates

✓

Thickness

✓

ened with rings

✓

Distance between rings

✓

Working pressure by rules

✓

End plates: Thickness

✓

How stayed

✓

ing pressure of end plates

✓

Area of safety valves to superheater

✓

Are they fitted with easing gear

✓

W490-0157



