

REPORT ON MACHINERY. No. 8344

Port of Hull

6 AUG 92

No. in Survey held at Reg. Book.

Date, first Survey

Received at London Office

Last Survey

(Number of Visits)

340 on the

Sham Screw Steamer Gomes IV

Gross 420

Net 248

When built 1882

Master

Built at

Grangemouth

By whom built

Dobson & Charles

Engines made at

Glasgow

By whom made

W. Kemp

Boilers made at

Hull

By whom made

Charles G. Linn

when made 1882

Registered Horse Power

70

Owners

A. Gomes

when made 1892

Port belonging to

Lisbon

m. Horse Power as per Section 28

GINES, &c.—

Description of Engines

Compound Inverted & Acting

No. of Cylinders

Diameter of Cylinders

Length of Stroke

Revolutions per minute

Diameter of Screw shaft

Diameter of Tunnel shaft

as per rule

as fitted

Diameter of Crank shaft journals

Diameter of Crank pin

Size of Crank webs

Diameter 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.

Bilge injections

sizes

Connected to condenser, or to circulating pump

Is a separate donkey suction fitted in Engine room & size

the bilge suction pipes fitted with roses

Are the roses in Engine room always accessible

Are the sluices on Engine room bulkheads always accessible

connections with the sea direct on the skin of the ship

Are they Valves or Cocks

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

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

pipes are carried through the bunkers

How are they protected

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

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

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

Is the screw shaft tunnel watertight

ed with a watertight door

worked from

RS, &c.—

(Letter for record S)

Total Heating Surface of Boilers

1170

Description of Boilers

Cylindrical

Working Pressure

75 lb

Tested by hydraulic pressure to 150 lb

est 22.8.91 Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of safety valves to

Spring loaded, Two

Area of each valve

9.96

Pressure to which they are adjusted

75 lb

Are they fitted

gear

Smallest distance between boilers or uptakes and bunkers or woodwork

4"

Mean diameter of boilers

12.9"

Material of shell plates

Steel

Thickness

19/16

Description of riveting: circum. seams

all in lap

long. seams

all staggered

rivet holes in long. seams

14/16

Pitch of rivets

3 1/2"

Lap of plates or width of butt straps

9"

of strength of longitudinal joint

rivets 81.4

plate 75.0

Working pressure of shell by rules

78 lb

Size of manhole in shell

16 x 12"

compensating ring

30 x 28 x 10/16

No. and Description of Furnaces in each boiler

Three

Material Steel Outside diameter

39"

main part

top 6.0

bottom 6.9

Thickness of plates

crown 1/2"

bottom 1/2"

Description of longitudinal joint

welded

No. of strengthening rings

—

pressure of furnace by the rules

95 lb

Combustion chamber plates: Material Steel

Thickness: Sides

1/2"

Back

1/2"

Top

1/2"

Bottom

to ditto: Sides

9"

Back

10"

Top

9"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

77 lb

stays Steel

Diameter at smallest part

1 1/8"

Area supported by each stay

10 x 9"

Working pressure by rules

88 lb

End plates in steam space:

Thickness

7/16"

Pitch of stays

15"

How are stays secured

all nuts

Working pressure by rules

94 lb

Material of stays

Steel

smallest part

1 3/4"

Area supported by each stay

15 x 15"

Working pressure by rules

96 lb

Material of Front plates at bottom

Steel

Material of Lower back plate

Steel

Thickness

10/16"

Greatest pitch of stays

12"

Working pressure of plate by rules

75 lb

tubes 3 1/2"

Pitch of tubes

4 3/4" x 1 1/2"

Material of tube plates

Steel

Thickness: Front

19/16"

Back

19/16"

Mean pitch of stays

9 1/2"

wide water spaces

13 1/4"

Working pressures by rules

80 lb

Girders to Chamber tops: Material Steel

Depth and

order at centre

6 x 1 1/2"

Length as per rule

34"

Distance apart

7 1/2"

sure by rules

76 lb

Superheater or Steam chest; how connected to boiler

Inged neck

Can the superheater be shut off and the boiler worked

—

Diameter

30 3/4"

Length

14.9

Thickness of shell plates

3/8"

Material Steel

pitch of rivets

2 1/8"

Working pressure of shell by rules

136 lb

Diameter of flue

—

Material of flue plates

—

Thickness

—

rings

Distance between rings

—

Working pressure by rules

—

End plates: Thickness

1/2"

How stayed

dished

Area of safety valves to superheater

—

Are they fitted with easing gear

—

Area of end plates

75 lb

Area of safety valves to superheater

—

Are they fitted with easing gear

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Area of end plates

75 lb

Area of safety valves to superheater

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Are they fitted with easing gear

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Area of end plates

75 lb

Area of safety valves to superheater

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Are they fitted with easing gear

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Area of end plates

75 lb

Area of safety valves to superheater

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Are they fitted with easing gear

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Area of end plates

75 lb

Area of safety valves to superheater

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Are they fitted with easing gear

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Area of end plates

75 lb

Area of safety valves to superheater

—

Are they fitted with easing gear

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**DONKEY BOILER**— Description *Cylindrical Vertical Internal Furnace* When made *1892* Where fixed *Stockholm*  
 By whom made \_\_\_\_\_  
 Made at \_\_\_\_\_  
 Working pressure *60* tested by hydraulic pressure to *120* No. of Certificate *258* Fire grate area *12 ft* Description of safety valves *Spring loaded*  
 No. of safety valves *1* Area of each *4 sq ft* Pressure to which they are adjusted *60* If fitted with easing gear *yes* If steam from main boilers can enter the donkey boiler *no* Diameter of donkey boiler *4-0* Length *9-0* Material of shell plates \_\_\_\_\_ Thickness \_\_\_\_\_  
 Description of riveting long. seams \_\_\_\_\_ Rivets \_\_\_\_\_ Thickness of shell crown plates \_\_\_\_\_ Radius of do. \_\_\_\_\_ No. of Stays to do. \_\_\_\_\_  
 Lap of plating \_\_\_\_\_ Per centage of strength of joint \_\_\_\_\_ Plates \_\_\_\_\_ Length of furnace \_\_\_\_\_ Thickness of furnace plates \_\_\_\_\_ Description \_\_\_\_\_  
 Dia. of stays \_\_\_\_\_ Diameter of furnace Top \_\_\_\_\_ Bottom \_\_\_\_\_ Stayed by \_\_\_\_\_ Working pressure of shell by rules \_\_\_\_\_  
 joint \_\_\_\_\_ Thickness of furnace crown plates \_\_\_\_\_ Diameter of uptake \_\_\_\_\_ Thickness of uptake plates \_\_\_\_\_ Thickness of water tubes \_\_\_\_\_  
 Working pressure of furnace by rules \_\_\_\_\_  
 SPARE GEAR. State the articles supplied:—

No 258  
LLOYD'S TEST  
120 LBS  
G.Y. 91. W.R.A.

EARLE'S  
SHIPBUILDING & ENGINEERING CO. LIMITED  
The foregoing is a correct description,  
*W. Seaton* Manufacturer.

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

*New main and donkey boiler of approved design tested as required by the Rule and placed in the ship. The safety valves adjusted to 75 & 60 lbs respectively. The case respectively submitted for the Notification in the Register Book.* + N.B. 7-92

*Note*  
*For repairs to Machinery & Boiler Mountings &c.*  
*Report attached hereto.*

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

Certificate (if required) to be sent to *The Surveyor*

The amount of Entry Fee.. £ *5 : 5*  
 Special .. .. £  
 Donkey Boiler Fee .. .. £  
 Travelling Expenses (if any) £

When applied for,

*4/8/92*

When received,

*4/8/92*

*James James*  
*J. Buckle*  
Engineer Surveyor to Lloyd's Register of British & Foreign

Committee's Minute

TUES. 9 AUG 1892

Assigned



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Foundation