

## REPORT ON MACHINERY.

Received from

Surveyor.

8 - JAN. 19

Port of Glasgow

TUES. JAN 15 1901

Received at London Office 18

No. in Survey held at  
Reg. Book.

Glasgow

Date, first Survey 22 February Last Survey 24 Dec 1900

(Number of Visits)

on the

S. S. SALTOM

Tons } Gross  
Net

Master

Built at

Troon

By whom built

Ailsa R. C.

When built 1900

Engines made at

Glasgow

By whom made

Muir &amp; Houston Ltd

when made 1900

Boilers made at

Glasgow

By whom made

Muir &amp; Houston Ltd

when made 1900

Registered Horse Power

Owners

Port belonging to

Nom. Horse Power as per Section 28 66.

Is Refrigerating Machinery fitted

No

Is Electric Light fitted

No

ENGINES, &amp;c.—Description of Engines

Compound - screw

No. of Cylinders 2

No. of Cranks 2

Dia. of Cylinders

16" &amp; 36"

Length of Stroke 24

Revs. per minute 120

Dia. of Screw shaft

as per rule 2.89

714

Lgth. of stern bush 2' 6"

Dia. of Tunnel shaft

as per rule

none

Dia. of Crank shaft journals

as per rule 6.96

as fitted 7"

Dia. of Crank pin 7"

Size of Crank webs 4 1/2"

Dia. of thrust shaft under

collars 7"

Dia. of screw 8" 0"

Pitch of screw 10" 0"

No. of blades 4

State whether moveable

yes

Total surface 22 sq. ft.

No. of Feed pumps 1

Diameter of ditto 2 1/4"

Stroke 12"

Can one be overhauled while the other is at work

yes

No. of Bilge pumps 1

Diameter of ditto 2 1/2"

Stroke 12"

Can one be overhauled while the other is at work

yes

No. of Donkey Engines 2 Duplex

Sizes of Pumps 6" x 4" x 6"

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

In Engine Room Two 2" dia.

In Holds, &amp;c. One 2" dia. in forward hold.

No. of bilge injections 1

sizes 3"

Connected to condenser, or to circulating pump

Is a separate donkey suction fitted in Engine room &amp; size

yes 2"

Are 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

none

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

yes

Are they Valves or Cocks

valves &amp; cocks

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

above

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

yes

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

yes

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

yes

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

before launch

Is the screw shaft tunnel watertight

none

Is it fitted with a watertight door

yes

worked from

yes

BOILERS, &amp;c.—

(Letter for record

(S)

Total Heating Surface of Boilers

1160 sq. ft.

Is forced draft fitted

no

No. and Description of Boilers

One single ended

Working Pressure 130 lbs

Tested by hydraulic pressure to 260 lbs

Date of test 30/10/00

Can each boiler be worked separately

yes

Area of fire grate in each boiler

36 sq. ft.

No. and Description of safety valves to

each boiler 2 Patent Spring

Area of each valve 4.91"

Pressure to which they are adjusted 130 lbs

Are they fitted with easing gear

yes

Smallest distance between boilers or uptakes and bunkers or woodwork 6" 0"

Mean dia. of boilers 12" 0"

Length 9' 6"

Material of shell plates

steel

Thickness 2 1/2"

Range of tensile strength 28 to 32

Are they welded or flanged

no

Descrip. of riveting: cir. seams

double

long. seams

treble

Diameter of rivet holes in long. seams 1 1/8"

Pitch of rivets 4 1/2"

Lap of plates or width of butt straps 1" 5"

rivets 100

Working pressure of shell by rules 135 lbs

Size of manhole in shell 16" x 12"

Per centages of strength of longitudinal joint

plate 85

Size of compensating ring

the heels

No. and Description of Furnaces in each boiler

2 Plain

Material

steel

Outside diameter 3' 9"

Length of plain part

top 6" 0"

bottom 5' 9"

Thickness of plates

crown 2 1/2"

bottom 2 1/2"

Description of longitudinal joint

welded

No. of strengthening rings

none

Working pressure of furnace by the rules 138 lbs

Combustion chamber plates: Material

steel

Thickness: Sides 9/16"

Back 9/16"

Top 9/16"

Bottom 9/16"

Pitch of stays to ditto: Sides 8 1/2 x 8 1/2"

Back 8 1/2 x 8 1/2"

Top 8 1/2 x 8 1/2"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules 151 lbs

Material of stays steel

Diameter at smallest part 1.19"

Area supported by each stay 72 1/4"

Working pressure by rules 131 lbs

End plates in steam space:

Material steel

Thickness 29/32"

Pitch of stays 17 x 17"

How are stays secured

nuts

Working pressure by rules 134 lbs

Material of stays steel

Diameter at smallest part 4.37"

Area supported by each stay 289"

Working pressure by rules 151 lbs

Material of Front plates at bottom steel

Thickness 2 1/2"

Material of Lower back plate steel

Thickness 2 1/2"

Greatest pitch of stays 12" x 8 1/2"

Working pressure of plate by rules 137 lbs

Diameter of tubes 3 1/2"

Pitch of tubes 4 3/4 x 4 3/4"

Material of tube plates steel

Thickness: Front 2 1/2"

Back 5/8"

Mean pitch of stays 9 1/2"

Pitch across wide water spaces 14"

Working pressures by rules 172 lbs

Girders to Chamber tops: Material

iron

Depth and

thickness of girder at centre 7 1/4 x 2 1/4"

Length as per rule 27"

Distance apart 8 1/2"

Number and pitch of Stays in each 2 - 8 1/2"

Working pressure by rules 156 lbs

Superheater or Steam chest; how connected to boiler

none

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

yes

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

yes

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Are they fitted with easing gear

yes

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

yes

Working pressure of end plates

Area of safety valves to superheater

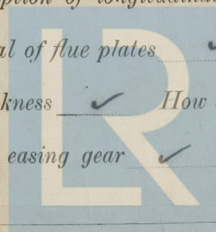
Are they fitted with easing gear

yes

If not, state whether, and when, one will present?

Is a Report also sent on the Hull of the ship?

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002340-002351-0069



DONKEY BOILER— No. *None* Description ☒

Made at ☒

By whom made ☒

When made ☒

Where fixed ☒

Working pressure ☒ tested by hydraulic pressure to ☒

No. of Certificate ☒

Fire grate area ☒

Description of safety valves ☒

No. of safety valves ☒ Area of each ☒ Pressure to which they are adjusted ☒

If fitted with easing gear ☒

If steam from main boilers can ☒

enter the donkey boiler ☒

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 ☒

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 ☒

Works ☒

Diameter of uptake ☒

Thickness of uptake plates ☒

Thickness of water tubes ☒

SPARE GEAR. State the articles supplied:—

Two top end & two bottom end connecting rod bolts, two main bearing bolts, one set coupling bolts, one set of feed & bulge pump valves, etc.

The foregoing is a correct description,

For **Muir & Houston, Limited**

Manufacturer.

Dates of Survey while building

During progress of work in shops—  
During erection on board vessel—  
Total No. of visits

1900: Feb. 22, Mar. 12, Apr. 5, 12, 18, 30, May 9, 24, Jun. 6, 16, 21, 29, Jul. 9, 26, Aug. 7, 22, 29, Sep. 3, 4, 13, 20, Oct. 2, 3, 8, 22, 26, 29, Nov. 5, Dec. 5, 7, 10, 13, 17, 20

Is the approved plan of main boiler forwarded herewith ☒

donkey ☒

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

The Machinery of this vessel has been constructed under Special Survey, the material & workmanship are of good quality, it has been securely fitted on board & tried under steam.

In my opinion it is eligible to be classed in the Register Book with the record of **L.M.C. 12.00** noted therein

It is submitted that this vessel is eligible for THE RECORD. **L.M.C. 12.00.**

15.1.01.

*J.S.*  
15.1.01

The amount of Entry Fee. £ 9 : 18 :  
Special .. .. £ 9 : 18 :  
Donkey Boiler Fee .. .. £ : :  
Travelling Expenses (if any) £ : :  
When applied for, 10/1/01  
When received, 10/1/01

Committee's Minute Glasgow. 14 JAN. 1901

Assigned

+ L.M.C. 12.00.  
(when fees paid)

*J.W.D. Duninock*  
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping



Lloyd's Register Foundation