

Rpt. 4.

REPORT ON MACHINERY.

No. 66,800.

FRI. 3 FEB 1905

Port of

London

Received at London Office

17.11.04

No. in Survey held at

Yarmouth

Date, first Survey

May 26

Last Survey

Nov 7 1904

Reg. Book.

Built on the

Engines for S.S. Argosy.

(Number of Visits

8 + 11 = 19

Hull Jan 11/05

Master

Built at

Hessle, near Hull

By whom built

J. Dobson & Co.

Gross 406

Tons Net 168

When built 1905.

Engines made at

Yarmouth

By whom made

Crabtree & Co

when made 1904

Boilers made at

Stockton

By whom made

Riley Bros & Co

when made 1904

Registered Horse Power

Owners

Argosy S.S. Co. Ltd

Port belonging to

London

Nom. Horse Power as per Section 28

73.5

Is Refrigerating Machinery fitted

✓

Is Electric Light fitted

✓

ENGINES, &c.—Description of Engines

Triple, Inverted, Surface Condensing

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

12 1/2", 21" & 34"

Length of Stroke

24"

Revs. per minute

105

Dia. of Screw shaft

as per rule 7 3/4"

as fitted 7 3/4"

Material of screw shaft

Steel

Is the screw shaft fitted with a continuous liner the whole length of the stern tube

yes

Is the after end of the liner made water tight

in the propeller boss

yes

If the liner is in more than one length are the joints burned

no

If the liner does not fit tightly at the part

between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

✓

If two

liners are fitted, is the shaft lapped or protected between the liners

Length of stern bush

36"

Dia. of Tunnel shaft

as per rule 6.37"

Dia. of Crank shaft journals

as per rule 6.69"

Dia. of Crank pin

7"

Size of Crank webs

5" x 10"

Dia. of thrust shaft under

collars

7"

Dia. of screw

10 1/2"

Pitch of screw

11'-0"

No. of blades

4

State whether moveable

no

Total surface

27 sq ft

No. of Feed pumps

one

Diameter of ditto

2 1/2"

Stroke

12"

Can one be overhauled while the other is at work

✓

No. of Bilge pumps

one

Diameter of ditto

2 1/2"

Stroke

12"

Can one be overhauled while the other is at work

✓

No. of Donkey Engines

Two

Sizes of Pumps

4 1/2" x 3" x 4" Duplex
6" x 5 1/2" x 6"

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

In Engine Room

One 2 1/2"

In Holds, &c.

One 2 1/2"

2 1/2" Ejector suction from Engine Room bilge & discharge overboard.

No. of bilge injections

1

size

3 1/2"

Connected to condenser, or to circulating pump

Is a separate donkey suction fitted in Engine room & size 2 1/2" Ejector

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

Both

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

Fore peak tank & hold suction

How are they protected

Wood casing

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

2/1/05

Is the screw shaft tunnel watertight

None

Is it fitted with a watertight door

✓

worked from

✓

BOILERS, &c.—

(Letter for record

Total Heating Surface of Boilers

1280 sq ft

Is forced draft fitted

no

No. and Description of Boilers

Working Pressure

160 lbs

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

W1375-0139

Is a Report also sent on the Hull of the Ship? If not, state whether, and when, one will be sent?

[2000-5-00—Copyright Ink.]

DONKEY BOILER— No. Description *See attached Report from Glasgow Surveyor*
Made at By whom made When made Where fixed *Stokehold*
Working pressure tested by hydraulic pressure to No. of Certificate Fire grate area Description of safety valves *Direct spring*
No. of safety valves *2* Area of each *3.14* Pressure to which they are adjusted *80 lbs* 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 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:— *Two top-end + two bottom-end connecting rod bolts + nuts. Two main bearing bolts + nuts. One set of coupling bolts + nuts. One set of feed + bilge pump valves. Assorted bolts + nuts &c.*

The foregoing is a correct description,

Manufacturer.

CRABTREE & CO., LTD.

W. F. Crabtree
MANAGING DIRECTOR

Dates { During progress of work in shops - - }
of Survey { During erection on board vessel - - } *Hull: 1904 Nov 8. 24. 29. Dec 8. 16. 28. 30. Jan 2. 4. 11. = 11.*
while building { Total No. of visits } *2 1905.*

Is the approved plan of main boiler forwarded herewith

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

These engines have been constructed under special survey & in accordance with the rules, the material & workmanship is good. These engines have been forwarded to Hull for fitting on board the vessel.

The Engines and Boilers of this vessel have now been fitted and secured on board in accordance with the Rules. They are now in good working condition and in my opinion eligible to have the notation of + LMC 1.05 in the Register Book.

It is submitted that
this vessel is eligible for
THE RECORD

ILMC.105.

Emil.
3.2.05

J.S.
3.2.05

The amount of Entry Fee. £ *1: 0: 0* When applied for, *17. 11. 1904*
Special *1/2 hon 1/2 Hull* £ *7: 16: 0*
Donkey Boiler Fee £ *3: 3: 0* When received, *20. 3. 1905*
Travelling Expenses (if any) £ *3: 3: 0*

TUES. 7 FEB 1905

Committee's Minute

Assigned

+ LMC 1.05

MACHINERY CERTIFICATE
WRITTEN.

Frank L. Lingen
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



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Foundation