

## REPORT ON MACHINERY.

No. 67391

Port of London.

Received at London Office

1 Jun 1905

No. in Survey held at

London

Date, first Survey

Dec 18/1904

Last Survey

Apr 29 1905

1905

Reg. Book.

1054/m the Eugenie N. 773 for the S.S. "Moane"

Master

Built at

London

By whom built

James Iron Works Ltd. C. H. when built

Gross

Tons

Net

Engines made at

London

By whom made

The James Iron Works Ltd. C. H. when made

1905

Boilers made at

London

By whom made

do:

when made

1905

Registered Horse Power

Owners

London County Council

Port belonging to

London

Nom. Horse Power as per Section 28

53

Is Refrigerating Machinery fitted

no

Is Electric Light fitted

yes

ENGINES, &amp;c.—Description of Engines Diagonal Compound No. of Cylinders 2 No. of Cranks 2

Dia. of Cylinders

16 1/31

Length of Stroke

36

Revs. per minute

Dia. of Shaft

as per rule

as fitted

Material of

S.

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

Is the after end of the liner made water tight

in the propeller boss

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

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

Dia. of Tunnel shaft

as per rule

Dia. of Crank shaft journals

as per rule

as fitted

Dia. of Crank pin

Size of Crank webs

Dia. of thrust shaft under

collars

Dia. of screw

Pitch of screw

No. of blades

State whether moveable

Total surface

No. of Feed pumps

one

Diameter of ditto

3 1/2

Stroke

10

Can one be overhauled while the other is at work

-

No. of Bilge pumps

one

Diameter of ditto

3 1/2

Stroke

10

Can one be overhauled while the other is at work

-

No. of Donkey Engines

one

Sizes of Pumps

4 1/2"

3 1/4" x 8"

stroke

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

-

In Engine Room

one 2" engine

12" donkey suction

In Holds, &amp;c.

2" forward

12" aft.

No. of bilge injections

one

size 3"

Connected to condenser, 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

-

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

none

How are they protected

-

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

-

Is the screw shaft tunnel watertight

-

Is it fitted with a watertight door

worked from

BOILERS, &amp;c.—(Letter for record S) Total Heating Surface of Boilers 7000 sq. ft. Is forced draft fitted yes

No. and Description of Boilers

one S.E. return tube

Working Pressure

115

Tested by hydraulic pressure to

230

Date of test

27.2.05

Can each boiler be worked separately

-

Area of fire grate in each boiler

25 sq. ft.

No. and Description of safety valves to

each boiler

2 - direct spring

Area of each valve

7.07 sq. in.

Pressure to which they are adjusted

115

Are they fitted with easing gear

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

12"

Mean dia. of boilers

9-0

Length

8-9

Material of shell plates

S

Thickness

7/16

Range of tensile strength

29-32

Are they welded or flanged

no

Descrip. of riveting: cir. seams

rough

long. seams

treble lap

Diameter of rivet holes in long. seams

7/4

Pitch of rivets

4 1/2

Lap of plates or width of butt straps

12"

Per centages of strength of longitudinal joint

rivets

83.7

Working pressure of shell by rules

119

Size of manhole in shell

16 x 12

Size of compensating ring

16" dia. ring

No. and Description of Furnaces in each boiler

2 plain

Material

S

Outside diameter

34 1/8"

Length of plain part

top

62 1/2

Thickness of plates

crown

7/16

Description of longitudinal joint

welded

No. of strengthening rings

none

Working pressure of furnace by the rules

142

Combustion chamber plates: Material

S

Thickness: Sides

1/2

Back

1/2

Top

7/16

Bottom

1/2

Pitch of stays to ditto: Sides

8 1/4 x 7 1/4

Back

8 1/2 x 7 1/2

Top

9 1/4 x 8 1/4

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

120

Material of stays

S

Diameter at smallest part

.93

Area supported by each stay

64 sq. in.

Working pressure by rules

116

End plates in steam space:

-

Material

S

Thickness

7/16

Pitch of stays

17 1/2 x 12 1/2

How are stays secured

Riv. markers

Working pressure by rules

115

Material of stays

S

Diameter at smallest part

2.87

Area supported by each stay

218 sq. in.

Working pressure by rules

132

Material of Front plates at bottom

S

Thickness

7/16

Material of Lower back plate

S

Thickness

7/16

Greatest pitch of stays

11 1/4

Working pressure of plate by rules

115

Diameter of tubes

2 1/2

Pitch of tubes

3 1/2

Material of tube plates

S

Thickness: Front

7/16

Back

7/16

Mean pitch of stays

11.4

Pitch across wide water spaces

12 1/2

Working pressures by rules

116

Girders to Chamber tops: Material

S

Depth and

-

thickness of girder at centre

6 1/2 x 7 1/2 - 2

Length as per rule

25

Distance apart

9 1/4

Number and pitch of Stays in each

2 - 8 1/4

Working pressure by rules

135

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

-

If not, state whether, and when, one will be sent?

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

[3000-7-02-Copyrighted Link.]

W1606-0032



DONKEY BOILER— No. 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  
Working pressure of furnace by rules Diameter of uptake Thickness of uptake plates Thickness of water tubes

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Manager.

Dates of Survey while building  
During progress of work in shops— 1904 Dec 13 16 30 1905 Jan 10 11 18 25 26 31 Feb 6 8 13 14 17 18 20  
During erection on board vessel— Feb 22 23 27 Mar 2 15 16 17 23 Apr 1 5 7 9 11 20 27 29 May 3 4 6 9 17 24 25  
Total No. of 8 Is the approved plan of main boiler forwarded herewith ylo.

" " " donkey " " "

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

The engins and boiler have been built under special survey. The material has been tested in accordance with the rule requirements. The main steam pipes have been tested by water to 200 lb, and the boiler to 230 lb, and they were found tight and sound at these respective pressures. The safety valves have been adjusted under steam, and the engins are working. The workmanship throughout is good.

This vessel's machinery is eligible in my opinion for record of + LMC 5.05.

Boiler stamped:—

N<sup>o</sup> 773  
605  
LLOYD'S TEST  
230 LBS  
27.2.05  
C.M

It is submitted that this vessel is eligible for THE RECORD L.M.C. 5.05. F.D. ELEC. LIGHT.

2.6.05

2.6.05

The amount of Entry Fee. £ 1 : 0 : 0 When applied for, 31/5/05  
Special . . . . £ 8 : 0 : 0  
Donkey Boiler Fee . . . £ : :  
Travelling Expenses (if any) £ : :  
When received, 3.6.05

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

Committee's Minute

FRI. 2 JUN 1905

Assigned

+ LMC 5.05

MACHINERY CERTIFICATE  
WRITTEN.



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Foundation