

REPORT ON MACHINERY.

MON 24 JUL 1898

Port of

Date, first Survey

Received at London Office

18

No. in Survey held at

Reg. Book.

on the

Master

Built at

By whom built

Tons

Gross 6115

Net 3981

When built 1898

Engines made at

By whom made

when made

Boilers made at

By whom made

when made

Registered Horse Power

Owners

Port belonging to

Nom. Horse Power as per Section 28

ENGINES, &c.—

Description of Engines

No. of Cylinders

Diameter of Cylinders

Length of Stroke

Revolutions per minute

Diameter of Screw shaft

Diameter of Tunnel shaft

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

No. of Feed pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Bilge pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Donkey Engines

Sizes of Pumps

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

In Engine Room

In Holds, &c.

No. of bilge injections

Connected to condenser, or to circulating pump

Are all the bilge suction pipes fitted with roses

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

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

Are they each fitted with a discharge valve always accessible on the plating of the vessel

What pipes are carried through the bunkers

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

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

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

Is it fitted with a watertight door

BOILERS, &c.—

(Letter for record)

Total Heating Surface of Boilers

No. and Description of Boilers

Date of test

each boiler

with easing gear

Length

Diameter of rivet holes in long. seams

Per centages of strength of longitudinal joint

Size of compensating ring

Length of plain part

Working pressure of furnace by the rules

Pitch of stays to ditto

Material of stays

Material

Diameter at smallest part

Thickness

Pitch of tubes

Pitch across wide water spaces

thickness of girder at centre

Working pressure by rules

separately

holes

If stiffened with rings

Working pressure of end plates

Total Heating Surface of Boilers

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thickness of girder at centre

Total Heating Surface of Boilers

Working pressure by rules

Total Heating Surface of Boilers

separately

Total Heating Surface of Boilers

holes

Total Heating Surface of Boilers

If stiffened with rings

Total Heating Surface of Boilers

Working pressure of end plates

Total Heating Surface of Boilers

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Lloyd's Register
Foundation

BEL69-0061

DONKEY BOILER—

Description

Cylindrical, Single End.

Made at

Belfast

By whom made

Workman Clark & Co. Ltd.

When made

1898

Where fixed

Pittsburgh

Working pressure

Tested by hydraulic pressure to

360 lbs

No. of Certificate

246

Fire grate area

56 sq ft

Description of safety valves

Direct Spring

No. of safety valves

Two

Area of each

5 sq ft

Pressure to which they are adjusted

180 lbs

If fitted with easing gear

Yes

If steam from main boilers can enter the donkey boiler

Description of riveting

Long seams

Butt, Double Rivet

Diameter of rivet holes

1 1/2

Whether punched or drilled

Revised

Pitch of rivets

9 in

Description of plating

1/8

Per centage of strength of joint

90%

Rivets

20%

Thickness of shell plates

1 in

Radius of do.

1/2 in

Pitch of stays to do

Dia. of stays

2 1/2 in

Diameter of furnace Top

4 1/4 in

Bottom

5 in

Length of furnace

6 ft 4 in

Thickness of furnace plates

9/16 in

Description of joint

Weld

Thickness of furnace crown plates

9/16 in

Stayed by

12 x 1/2 in

Stays

12 x 1/2 in

Working pressure of shell by rules

211

Description of

Working pressure of furnace by rules

205 lbs

Diameter of uptake

5 in

Thickness of uptake plates

1 in

Thickness of water tubes

Plates 2 1/2 in

SPARE GEAR. State the articles supplied:—

one third Crank Shaft: one propeller shaft: one propeller boss: one propeller blade: one set connecting rod brasses: air pump bucket & rod: air pump head valve seating: set packing rings for H.P. piston: sets springs for each piston: one slide valve rod, complete: one eccentric sheave: sets of valves for Main & other donkey pumps: condenser valves, first last set, and all gear to our requirements additional.

The foregoing is a correct description,

WORKMAN, CLARK & CO., LIMITED

Manufacturers.

General Remarks

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

Dates of Survey while building

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

The machinery of this vessel has been constructed under Special Survey, and is of good material and workmanship. It has been securely fitted on board, and on trial worked satisfactorily under steam. The main boilers have been fitted with Howden's Forced Draft: an electric light installation by Messrs. Allen & Co., has been fitted, a report on which will be forwarded shortly. In my opinion this vessel is eligible to have record + L.M.C. 10-98 F.D and "Electric Light" in the Register Book. The approved photo prints of main & donkey boilers are appended, also one Forge Report.

Dates of Survey while building

July 1-4, 1897. Aug 11, 13. Sept 22, 29. Nov. 4, 24. Jan. 1898. 6. Feb. 24, 28. March 23, 28, 31. Apr. 4, 15, 28. May 2, 5, 24, 26. June 21, 24, 30. July 27. Aug 5, 17, 24, 29, 31. Sep. 14, 16, 19, 29. Oct. 3, 12, 18, 19. Total 38.

It is submitted that this vessel is eligible for THE RECORD.

+ L.M.C. 10,98 F.D. Electric Light.

24/10/98

Certificate (if required) to be sent to

The amount of Entry Fee.

£ 3

-

:

-

:

When applied for,

21-10-1898

Special

£ 49

5

:

-

:

When received,

25-10-1898

Donkey Boiler Fee

£

:

-

:

Travelling Expenses (if any) £

:

-

:

Committee's Minute

TUES. 25 OCT 1898

MACHINE WRITTEN

Assigned

+ L.M.C. 10,98

7D Electric Light

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