

REPORT ON MACHINERY.

No. 6804.

MON. 11 III 1910

Received at London Office

19

No. in Survey held at
Reg. Book.

Port of

Date, first Survey

(Number of Visits)

Gross 4119

Net 2538

When built 1910

Master

Built at

By whom built

Engines made at

By whom made

When made

Boilers made at

By whom made

When made

Registered Horse Power

Owners

Belonging to

Nom. Horse Power as per Section 28

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

ENGINES, &c.—Description of Engines

No. of Cylinders

No. of Cranks

Dia. of Cylinders

Length of Stroke

Revs. per minute

Dia. of Screw shaft

as per rule

as fitted

Material of

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

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

Dia. of Crank pin

Size of Crank web

Dia. of thrust shaft under

collars

Dia. 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

Is a separate Donkey Suction fitted in Engine room & size

Are all the bilge suction pipes fitted with roses

Are the roses in Engine room always accessible

Are the sluices on Engine room bulkheads always accessible

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

Are they Valves or Cocks

Are they 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

Are they 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

What pipes are carried through the bunkers

How are they protected

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

Dates of examination of completion of fitting of Sea Connections

of Stern Tube

Screw shaft and Propeller

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

BOILERS, &c.—(Letter for record)

Manufacturers of Steel

Total Heating Surface of Boilers

Is Forced Draft fitted

No. and Description of Boilers

Working Pressure

Tested by hydraulic pressure to

Date of test

No. of Certificate

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 the shell plates welded or flanged

Descrip. of riveting: cir. sec.

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

Thickness of plates

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

Bottom

If stays are fitted with nuts or riveted heads

Working pressure by rules

Material of stay

Diameter at smallest part

Area supported by each stay

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

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 plate

Thickness: Front

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

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

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

End plates: Thickness

How stayed

Lloyd's Register

Foundation

W625-0105

VERTICAL DONKEY BOILER—

Manufacturers of Steel

No. _____ Description _____

Made at _____ By whom made _____ When made _____ Where fixed _____

Working pressure _____ tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____ Fire grate area _____ Description of Safety _____

Valves _____ No. of Safety Valves _____ Area of each _____ Pressure to which they are adjusted _____ Date of adjustment _____

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 _____ Plates _____

Working pressure of shell by rules _____ 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 _____

Working pressure of furnace by rules _____ Thickness of furnace crown plates _____ Stayed by _____

Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____ Dates of survey _____

SPARE GEAR. State the articles supplied:— *Propeller shaft, two propeller blades, can pump valves, 2 spare sets piston rings all of standard, auxiliary pump & spare pump, sandblower tubes etc. and a pump to lay down Rules extra.*

The foregoing is a correct description,
FOR WORKMAN, CLARK & CO., LIMITED

M. H. Bell Manufacturer.

Dates of Survey while building { During progress of work in shops— 1909, Nov 2, 13, 30 Dec 10, 14, 22, 1910 Jan 7, 12, 14, 26, Feb 10, 18 Mar 10, 18
During erection on board vessel— 1, 4, 10, 11, 14, 18, up to 6th July 1910
Total No. of visits 48

Is the approved plan of main boiler forwarded herewith *Yes*

Dates of Examination of principal parts—Cylinders 12-6-10 Slides 10-6-10 Covers 10-6-10 donkey 10-6-10
Connecting rods 10-6-10 Crank shaft 12-1-10 Thrust shaft Tunnel shafts Screw shaft 12-4-10 Propeller 14-4-10
Stern tube 14-4-10 Steam pipes tested 25-2-10 Engine and boiler seatings 2-6-10 Engines holding down bolts 3-6-10
Completion of pumping arrangements 9-6-10 Boilers fixed 9-6-10 Engines tried under steam 10-6-10
Main boiler safety valves adjusted 10-6-10 Thickness of adjusting washers 14-14-10
Material of Crank shaft *L. J. B.* Identification Mark on Do. *LLOYDS* 32 Material of Thrust shaft *W.* Identification Mark on Do. *LLOYDS* 14-5-10
Material of Tunnel shafts *W.* Identification Marks on Do. *LLOYDS* 12-4-10 Material of Screw shafts *W.* Identification Marks on Do. *LLOYDS* 12-4-10
Material of Steam Pipes *M. H. Bell* Test pressure 600 lbs. sq. in.

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

The machining of this vessel has been entrusted under Special Survey, and in accordance with the Rules of the workmanship, and the materials are of good description, and an trial in Belfast Lough, the machinery worked satisfactorily. In my opinion, it is eligible for record + L.M.C. 7-10 with notation "Fareed Warp" & "Electric Light & Refrigerating Machinery".

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 7.10.
F.D.

The amount of Entry Fee... £ 3 : 0 :
Special ... £ 49 : 8 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for, 4-4-1910
When received, 9-7-1910

Committee's Minute

Assigned

TUES. 12 JUL 1910

+ L.M.C. 7.10

F.D.

R. J. D. B. Smith
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

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These

Signal Le

Officia

129

No., Date, a

Whether Bri
Foreign B

Brita

Number of

Number of

Rigged

Stern

Build

Galleries

Head

Framework

vessel

Number of

Number of

and their

Total to quarter th

to bottom of

No. of

Engines

Des

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dim

trip

surf

No. of

Shafts

Par

Descrip

Number

Iron or

Landed

Under Tonnag

Space or spac

Turret or Tan

Forecastle

Bridge space

Poop or Deck

Side Houses

Deck Houses

Chart Houses

Spaces for ma

Section 78 (

1894.

Excess of Hato

Gross

Deductions, as

Regis

NOTE.—The on

Port p

Starboard

Open

Alcov

Name

No. of Owners

Name, Residen

The Cas

having

Avenue

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Dated 27

30) (65181) Wt.