

Port of Glasgow

JULY 28 FEB 1905

Received at London Office

No. in Survey held at
Reg. Book.GlasgowDate, first Survey 29th June 04 Last Survey 18th Feb 1905(Number of Visits 20)

on the

Steel Ser. Stmr. "Lillebonne"Tons
Gross
Net

Master

Built at

Dublin

By whom built

Dublin Dockyard Co. (No 46)

When built

1905

Engines made at

Glasgow

By whom made

McAlister & Duncan (No 619)

when made

1905

Boilers made at

Glasgow

By whom made

do(No 991)

when made

1905

Registered Horse Power

Owners

Port belonging to

Nom. Horse Power as per Section 28

127

Is Refrigerating Machinery fitted for cargo purposes

No.

Is Electric Light fitted

Yes.

ENGINES, &c.—Description of Engines

Triple expansion

No. of Cylinders

Three

No. of Cranks

3

Dia. of Cylinders

17.27 1/2 : 44

Length of Stroke

33

Revs. per minute

96

Dia. of Screw shaft

as per rule10 1/8

Material of

Iron

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

No.

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 burnedSeparate

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

Yes

If two

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

No.

Length of stern bush

3' 4 1/2"

Dia. of Tunnel shaft

as per rule8 3/4

Dia. of Crank shaft journals

as per rule9 1/2

Dia. of Crank pin

9 1/2

Size of Crank webs

6 1/2 x 13 1/2

Dia. of thrust shaft under

collars

9 1/2

Dia. of screw

11 1/2

Pitch of screw

12 1/2

No. of blades

4

State whether moveable

No.

Total surface

48"

No. of Feed pumps

Two

Diameter of ditto

3"

Stroke

16 1/2

Can one be overhauled while the other is at work

Yes.

No. of Bilge pumps

Two

Diameter of ditto

3 1/2"

Stroke

16 1/2

Can one be overhauled while the other is at work

Yes.

No. of Donkey Engines

Two

Sizes of Pumps

Simple 5 1/2 x 3 1/2 x 5

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

In Engine Room

One 2 1/2" + one 2 1/4"

In Holds, &c.

Four 2"

No. of bilge injections

1

sizes

4 1/2"

Connected to condenser, or to circulating pump

Yes

Is a separate donkey suction fitted in Engine room & size

Yes 2 1/2"

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

Larger valves, smaller 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

Inward bilge suction

How are they protected

Wooden 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

New metal

Is the screw shaft tunnel watertight

Machy aft

Is it fitted with a watertight door

Yes

worked from

Yes

BOILERS, &c.—

(Letter for record

B)

Total Heating Surface of Boilers

2055

Is forced draft fitted

No.

No. and Description of Boilers

One single ended

Working Pressure

180 lb

Tested by hydraulic pressure to

360

Date of test

No. 7350

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

63

No. and Description of safety valves to

each boiler

Two

Spring loaded

Area of each valve

6.49

Pressure to which they are adjusted

185 lb

Are they fitted with easing gear

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

Several feet

Mean dia. of boilers

15' 6"

Length

10' 6"

Material of shell plates

Steel

Thickness

1/4"

Range of tensile strength

28/32

Are they welded or flanged

No.

Descrip. of riveting: cir. seams

Double

Riv. long. seams

DoubleDouble

Diameter of rivet holes in long. seams

1 1/16

Pitch of rivets

9 1/8"

Lap of plates or width of butt straps

1' 7" x 1 1/4"

Per centages of strength of longitudinal joint

88.0

Working pressure of shell by rules

180 lb

Size of manhole in shell

12 x 16

Size of compensating ring

7 1/4 x 1 1/2

No. and Description of Furnaces in each boiler

3 'Morison'

Material

Steel

Outside diameter

49 1/4"

Length of plain part

top

Thickness of plates

9/16

Description of longitudinal joint

Welded

No. of strengthening rings

27/32

Working pressure of furnace by the rules

179

Combustion chamber plates: Material

Steel

Thickness: Sides

5/8

Back

5/8

Top

5/8

Bottom

27/32

Pitch of stays to ditto: Sides

8 x 8 3/4

Back

8 3/4 x 8 3/4

Top

8 7/8 x 8

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

184

Material of stays

Iron

Diameter at smallest part

2.07

Area supported by each stay

73

Working pressure by rules

212

End plates in steam space:

Material

Steel

Thickness

1 1/16

Pitch of stays

14 x 18

How are stays secured

Double

Working pressure by rules

205

Material of stays

Steel

Diameter at smallest part

5 1/8

Area supported by each stay

252

Working pressure by rules

194

Material of Front plates at bottom

Steel

Thickness

3/4

Greatest pitch of stays

14 1/4 with 10"

Diameter of tubes

3 1/2

Pitch of tubes

4 3/4 x 4 3/4

Material of tube plates

Steel

Thickness: Front

13/16

Back

13/16

Mean pitch of stays

9 1/2

Pitch across wide water spaces

14 1/2"

Working pressures by rules

192

Girders to Chamber tops: Material

Iron

Depth and

thickness of girder at centre

8 x 2 1/4"

Length as per rule

32 1/2

Distance apart

8 7/8

Working pressure by rules

185

Superheater or Steam chest; how connected to boiler

None

Can the superheater be shut off and the boiler worked

Yes

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

180 lb

Diameter of flue

Material of flue plates

DONKEY BOILER— No. *One* Description *Vertical. Four cross tubes.*
Made at *Motherwell* By whom made *Messrs John Marshall & Co* When made *1905* Where fixed *In Stokeland*
Working pressure *75* tested by hydraulic pressure to *150 lb* No. of Certificate *21104* Fire grate area *22* Description of safety valves *The Spring loaded*
No. of safety valves *One* Area of each *11.04* Pressure to which they are adjusted *80 lb* If fitted with easing gear *Yes* If steam from main boilers can enter the donkey boiler *No* Dia. of donkey boiler *6' 0 3/4"* Length *10' 6"* Material of shell plates *Steel* Thickness *3/8"* Range of tensile strength *27-32* Descrip. of riveting long. seams *D. R. Lap* Dia. of rivet holes *13/16* Whether punched or drilled *Drilled* Pitch of rivets *2 5/8"*
Lap of plating *4"* Per centage of strength of joint *90.0* Rivets *69.0* Thickness of shell crown plates *5/8"* Radius of do. *6' 0"* No. of Stays to do. *5*
Dia. of stays *1 5/8"* Diameter of furnace Top *62 5/16"* Bottom *66 3/4"* Length of furnace *5' 6"* Thickness of furnace plates *17/32"* Description of joint *Welded* Thickness of furnace crown plates *5/8"* Stayed by *Same as Crown* Working pressure of shell by rules *75 lb*
Working pressure of furnace by rules *75 lb* Diameter of uptake *17"* Thickness of uptake plates *1/2"* Thickness of water tubes *3/8"*

SPARE GEAR. State the articles supplied:— *Two top end & two bottom end connecting rod bolts. Two main bearing bolts. Set coupling bolts. Set feed & ship pump valves. Assorted bolts. Iron. Propellers. 6 Condenser tubes. 3 Boiler tubes. 60 firebars. 6 piston bolts. 2 valves for checks.*

The foregoing is a correct description,

Jos. & Demaree Manufacturer.

Dates of Survey while building { During progress of work in shops— 1905 June 22, 29, July 4, Aug 4, Sep 8, Oct 10, 17, 24, Nov 1, 8, 16, 22, Dec 8, 12, 1905
During erection on board vessel— Jan 26, 27, 30, Feb 7, 11, 18.
Total No. of visits *20*

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

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

The machinery has been constructed under special survey, in accordance with the Rules, & the workmanship found good.

It is submitted that the vessel is eligible for the notation + Elec. 2.05.

A report on the Electric Lighting will be forwarded in due course.

It is submitted that
this vessel is eligible for
THE RECORD

ELM.C. 2.05 ELEC. LIGHT.

1.3.05

1.3.05

The amount of Entry Fee. : £ 2 : - :
Special £ 19 : 1 :
Donkey Boiler Fee £ : :
Travelling Expenses (if any) £ : :
When applied for, 27 FEB 1905
When received, 3/3/05

Committee's Minute

Assigned

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

Glasgow 27th 1905

+ L.M.C. 2.05

(Subject to classification of hull)

FRI. 3 MAR 1905

Lloyd's Register
Foundation