

## REPORT ON MACHINERY.

No. 23529

Port of

Glasgow

Received at London Office

JUES. 20 FEB 1906

No. in Survey held at  
Reg. Book.

Glasgow

Date, first Survey

3 March 05

Last Survey

12 Feb 1906

(Number of Visits)

on the

S. S.

"KILKERRAN."

Master

Built at

Glasgow

By whom built

C. Connell &amp; Co.

Tons

Gross

Net

When built

1906

Engines made at

Glasgow

By whom made

Dunsmuir &amp; Jackson Ltd

when made

1906

Boilers made at

Glasgow

By whom made

do

do

when made

1906

Registered Horse Power

Owners

Port belonging to

Glasgow

Nom. Horse Power as per Section 28

382

Is Refrigerating Machinery fitted for cargo purposes

No.

Is Electric Light fitted

No.

## ENGINES, &amp;c.—Description of Engines

Triple expansion—Screw

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

25½", 42", 68"

Length of Stroke

45"

Revs. per minute

75

Dia. of Screw shaft

as per rule 13.8"

Material of

iron

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

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

4" 8"

Dia. of Tunnel shaft

as per rule 12.57"

Dia. of Crank shaft journals

as per rule 13.2"

Dia. of Crank pin

13½"

Size of Crank webs

8½"

Dia. of thrust shaft under

collars

13½"

Dia. of screw

16" 6"

Pitch of screw

18" 0"

No. of blades

4

State whether moveable

yes

Total surface

88 sq. ft.

No. of Feed pumps

2

Diameter of ditto

3¾"

Stroke

24"

Can one be overhauled while the other is at work

yes

No. of Bilge pumps

2

Diameter of ditto

4"

Stroke

24"

Can one be overhauled while the other is at work

yes

No. of Donkey Engines

5

Sizes of Pumps

2 weirs 8x6x21-4½x3x6"

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

In Engine Room

Four 3" dia.

In Holds, &amp;c.

Two 3" dia. in each Nos

1, 2 &amp; 3 holds. One in No. 4 hold, &amp; in tunnel well

No. of bilge injections

1

sizes

5

Connected to condenser, or to circulating pump

Is a separate donkey suction fitted in Engine room &amp; size

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

valves &amp; 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

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

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

before launch

Is the screw shaft tunnel watertight

Is it fitted with a watertight door

yes

worked from top platform.

## BOILERS, &amp;c.—No. of Certificate

7769

(Letter for record

S)

Total Heating Surface of Boilers

5212

Is forced draft fitted

No. and Description of Boilers

Two single ended

Working Pressure

180 lbs

Tested by hydraulic pressure to

360 lbs

Date of test

9/10/05

Can each boiler be worked separately

yes

Area of fire grate in each boiler

51.93

No. and Description of safety valves to

each boiler 2 paknet spring

Area of each valve

8.29

Pressure to which they are adjusted

185 lbs

Are they fitted with easing gear

Smallest distance between boilers or uptakes and bunkers or woodwork

12"

Mean dia. of boilers

15" 3"

Length

12" 0"

Material of shell plates

Thickness

13/32"

Range of tensile strength

28 to 32

Are they welded or flanged

no

Descrip. of riveting: cir. seams

ends double

centre tube long. seams

treble

Diameter of rivet holes in long. seams

1 7/16"

Pitch of rivets

9 5/8"

Lap of plates or width of butt straps

1" 9"

Per centages of strength of longitudinal joint

rivets 85

plate 89.6

Working pressure of shell by rules

207 lbs

Size of manhole in shell

16" x 12"

Size of compensating ring

Wheils

No. and Description of Furnaces in each boiler

3

Deighton

Material

steel

Outside diameter

Length of plain part

top

bottom

Thickness of plates

crown

bottom

19/32"

Description of longitudinal joint

welded

No. of strengthening rings

Working pressure of furnace by the rules

201 lbs

Combustion chamber plates: Material

steel

Thickness: Sides

3/32"

Back

5/8"

Top

3/32"

Bottom

15/16"

Pitch of stays to ditto: Sides

9" x 8 3/16"

Back

8 1/2" x 8 3/16"

Top

9" x 8 3/16"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

Material of stays

steel

Area at smallest part

1.76

Area supported by each stay

78.75

Working pressure by rules

182 lbs

End plates in steam space:

Material

steel

Thickness

15/16"

Pitch of stays

18 1/2" x 16 1/2"

How are stays secured

nuts

Working pressure by rules

206 lbs

Material of stays

Area at smallest part

6.33

Area supported by each stay

305 1/4"

Working pressure by rules

207

Material of Front plates at bottom

steel

Thickness

7/8"

Material of Lower back plate

steel

Thickness

7/8"

Greatest pitch of stays

13 1/2" x 8 3/16"

Working pressure of plate by rules

206 lbs

Diameter of tubes

2 1/2"

Pitch of tubes

3 3/4" x 3 3/4"

Material of tube plates

steel

Thickness: Front

1 5/8"

Back

3/4"

Mean pitch of stays

9 3/8"

Pitch across wide water spaces

13 1/2"

Working pressures by rules

180 lbs

Girders to Chamber tops: Material

iron

Depth and

thickness of girder at centre

9 1/2" x 2-1"

Length as per rule

2. 10 5/8"

Distance apart

9"

Number and pitch of Stays in each

3-8 3/4"

Working pressure by rules

201 lbs

Superheater or Steam chest; how connected to boiler

none

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

yes

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

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

2m.35.—T.

Lloyd's Register  
Foundation

W961-0008



SPARE GEAR. State the articles supplied:— Two top end & two bottom end connecting rod bolts, two main bearing bolts, one set of coupling bolts & one set of feed & brlge pump valves. etc.

*Manufacturer.*

Jas. P. Adam

Is the approved plan of main boiler forwarded herewith No  
 Same as Kilchattan No  
 " " donkey " " " No

In my opinion it is eligible to be classed in the Register Book with the record of ✠ L.M.C 2.06.

It is submitted that  
this vessel is eligible for  
THE RECORD H L M C 2 06 FD.

Paul  
21-2-06

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

## Committee's Minute

## Assigned

MACHINERY CERTIFICATE  
WRITTEN 20.2.06

