

Received at London Office

Date of writing Report

19

When handed in at Local Office

19. 5. 1913 Port of

SUNDERLAND TUE. MAY 20. 1913

No. in Survey held at
Reg. Book.

SUNDERLAND.

Date, First Survey

7 Feb'y

Last Survey

13th May

1913.

(Number of Visits

20

Gross

3931

Net

2492

Master H.P. Goodwin

Built at Sunderland

By whom built

J.L. Thompson & Sons Ltd.

When built

1913

Engines made at

Silana

By whom made

J. Dickinson & Sons Ltd.

when made

1913

Boilers made at

By whom made

when made

1913

Registered Horse Power

Owners

Pacific Shipping Ltd.

Port belonging to

Sunderland

Nom. Horse Power as per Section 28

399

Is Refrigerating Machinery fitted for cargo purposes

no.

Is Electric Light fitted

no.

ENGINES, &c.—Description of Engines *Tri C.p.d.*

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

26. 42. 71

Length of Stroke

48

Revs. per minute

70

Dia. of Screw shaft

as per rule 14.5

Material of

16 I.

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

5 ft.

Dia. of Tunnel shaft

as per rule 12.98

Dia. of Crank shaft journals

as per rule 13.63

Dia. of Crank pin

13.75

Size of Crank webs

patent

Dia. of thrust shaft under

collars

13 3/4

Dia. of screw

17 6

Pitch of Screw

17 ft.

No. of Blades

4

State whether moveable

no

Total surface

862 sq. ft.

No. of Feed pumps

2

Diameter of ditto

4

Stroke

25 1/2

Can one be overhauled while the other is at work

yes

No. of Bilge pumps

2

Diameter of ditto

4 1/2

Stroke

25 1/2

Can one be overhauled while the other is at work

yes

No. of Donkey Engines

2

Sizes of Pumps

5.6 hp

7.10

x 10

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

In Engine Room

3 of 3 1/2

In Holds, &c.

2 of 3 1/2 in each

tunnel 25

No. of Bilge Injections

1

sizes

4

Connected to condenser, or to circulating pump

CP

Is a separate Donkey Suction fitted in Engine room & size

yes 4

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

yes

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

Dates of examination of completion of fitting of Sea Connections

1.4.13

of Stern Tube

8.4.13

Screw shaft and Propeller

8.4.13

Is the Screw Shaft Tunnel watertight

yes

Is it fitted with a watertight door

yes

worked from top platform

BOILERS, &c.—(Letter for record *S*)

Manufacturers of Steel

J. Spencer & Sons Ltd.

Total Heating Surface of Boilers

6449 sq. ft.

Is Forced Draft fitted

no

No. and Description of Boilers

3 ordinary type

Working Pressure

18.0 lb

Tested by hydraulic pressure to

300

Date of test

17.4.13

No. of Certificate

3105

Can each boiler be worked separately

yes

Area of fire grate in each boiler

56 sq. ft.

No. and Description of Safety Valves to

each boiler

2 Spring

Area of each valve

7.06

Pressure to which they are adjusted

185

Are they fitted with easing gear

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

18"

Mean dia. of boilers

15 ft.

Length

11 ft.

Material of shell plates

S

Thickness

1 1/8"

Range of tensile strength

282. 32

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

d.r. lap

long. seams

d. butt

Diameter of rivet holes in long. seams

1 5/16"

Pitch of rivets

8 3/4"

Lap of plates

or

width of butt straps

1 7/8"

Per centages of strength of longitudinal joint

rivets 85.57

plate 85

Working pressure of shell by rules

182

Size of manhole in shell

16" x 12"

Size of compensating ring

8 7/8 x 1 1/8"

No. and Description of Furnaces in each boiler

3 plain

Material

S

Outside diameter

3' 6"

Length of plain part

top 6.72

bottom 7.3

Thickness of plates

crown 5 1/4

bottom 6 1/4

Description of longitudinal joint

weld

No. of strengthening rings

Working pressure of furnace by the rules

181

Combustion chamber plates: Material

S

Thickness: Sides

7/8"

Back

7/8"

Top

7/8"

Bottom

1 1/8"

Pitch of stays to ditto: Sides

9 x 10

Back

9 1/2 x 9 1/2

Top

9 x 10

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

181

Material of stays

S

Diameter at smallest part

1 1/8"

Area supported by each stay

90

Working pressure by rules

203

End plates in steam space:

Material

S

Thickness

1 1/4"

Pitch of stays

19 x 21 1/8"

How are stays secured

d. nut

Working pressure by rules

181

Material of stays

S

Diameter at smallest part

3.03

Area supported by each stay

406

Working pressure by rules

190

Material of Front plates at bottom

S

Thickness

7/8"

Material of Lower back plate

S

Thickness

29 1/2"

Greatest pitch of stays

14 3/4"

9 7/8"

Working pressure of plate by rules

183

Diameter of tubes

3 1/4"

Pitch of tubes

42" x 42"

Material of tube plates

S

Thickness: Front

7/8"

Back

7/8"

Mean pitch of stays

9"

Pitch across wide water spaces

14 3/4"

Working pressures by rules

232

Girders to Chamber tops: Material

S

Depth and

thickness of girder at centre

7 1/2" x 11.2"

Length as per rule

2' 6 1/2"

Distance apart

10"

Working pressure by rules

184

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

VERTICAL DONKEY BOILER—

Manufacturers of Steel

No.	Description	Made at	By whom made	When made	Where fired
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	Radius of do.	Stayed by		
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey		

SPARE GEAR. State the articles supplied:— *propeller & shaft. Set top & bottom end bolts & nuts. Set main bearing bolts & nuts. Coupling bolts & nuts. Set of valves for bilge feed pump & set of air & bilge pump valves. 2 ballast feed pump valves. 2 main & donkey check valves. 2 safety & escape valve springs. Nuts, bolts and assorted iron.*

The foregoing is a correct description,

Manufacturer

J. C. Dickinson

Dates of Survey while building

1913 Feb. 7-27 Mar. 5-6-12-20-24-28-31 Apr. 1-8-17-18-28-29 May 1-2-5-8-13

(20) Is the approved plan of main boiler forwarded herewith *yes*

Dates of Examination of principal parts—Cylinders *12.3.13* Slides *6.3.13* Covers *6.3.13* Pistons *6.3.13* Rods *6.3.13*

Connecting rods *6.3.13* Crank shaft *28.3.13* Thrust shaft *28.3.13* Tunnel shafts *28.3.13* Screw shaft *28.3.13* Propeller *1.4.13*

Stern tube *1.4.13* Steam pipes tested *29.4.13* Engine and boiler seatings *28.4.13* Engines holding down bolts *28.4.13*

Completion of pumping arrangements *2.5.13* Boilers fixed *29.4.13* Engines tried under steam *2.5.13*

Main boiler safety valves adjusted *2.5.13* Thickness of adjusting washers *PF 3/32 PA 4/32 CB 3/32 CB 5/32 SB 5/32 SF 4/32*

Material of Crank shaft *S* Identification Mark on Do. *R.I.F.* Material of Thrust shaft *S* Identification Mark on Do. *R.I.F.*

Material of Tunnel shafts *S* Identification Marks on Do. *R.I.F.* Material of Screw shafts *W.I.* Identification Marks on Do. *R.I.F.*

Material of Steam Pipes *C* Test pressure *400 lbs*

General Remarks (State quality of workmanship, opinions as to class, &c. *Engines & boilers built under special survey. materials & workmanship good. Examined under full steam & working conditions & found satisfactory.*

It is submitted that this vessel is eligible for the record of L.M.C. 5/13 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD. + LMC 5.13.

JWD. 20/5/13

The amount of Entry Fee £ *3*

Special £ *39.19*

Donkey Boiler Fee £

Travelling Expenses (if any) £

When applied for.

17.5.13

When received.

20/5/13

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

J. J. Hindley

Committee's Minute

FRI. MAY 23. 1913

Assigned

LMC 5.13

MACHINERY CERTIFICATE WRITTEN.



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