

REPORT ON MACHINERY.

No. 26066

Date of writing Report

10

When handed in at Local Office

10

Port of

SUNDERLAND

Received at London Office THIL APR - 9 1914

No. in Survey held at Reg. Book.

SUNDERLAND

Date, First Survey

14th March

Last Survey

4th April 1914

1355 on the new steel S/S "SIMOOM"

(Number of Vents)

39

Gross

2222

Net

1365

Master

J. Enos

Built at

Sunderland

By whom built

Priestman & Co S/S N° 245

When built

1914

Engines made at

Sunderland

By whom made

G. Black L^{td} (N° 991)

when made

1914

Boilers made at

Sunderland

By whom made

G. Black L^{td} (N° 991)

when made

1914

Registered Horse Power

Owners Pardee Thomas & Co L^{td}

Port belonging to Newport. Mon.

Nom. Horse Power as per Section 28

222

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

yes

ENGINES, &c.—Description of Engines

Triple expansion

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

21.35.37

Length of Stroke

39

Revs. per minute

65

Dia. of Screw shaft

as per rule 12"

Material of (screw shaft)

S. steel

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

Is 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

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

Length of stern bush

4'-0"

Dia. of Tunnel shaft

as per rule 10.56"

as fitted 10 9/16"

Dia. of Crank shaft journals

as per rule 11.1"

as fitted 11 1/8"

Dia. of Crank pin

11 1/8"

Size of Crank webs

16 1/2 x 7 1/2"

Dia. of thrust shaft under

Collars

11 3/4"

Dia. of screw

15'-0"

Pitch of Screw

15'-6"

No. of Blades

4

State whether moveable

no

Total surface

73 #

No. of Feed pumps

2

Diameter of ditto

2 3/4"

Stroke

24"

Can one be overhauled while the other is at work

yes

No. of Bilge pumps

2

Diameter of ditto

3 1/2"

Stroke

24"

Can one be overhauled while the other is at work

yes

No. of Donkey Engines

2

Sizes of Pumps

9 8/10 x 10"

6 8/4 x 6"

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

Engine Room

Three @ 3"

In Holds, &c.

Forward hold - 2 @ 3" after

No. of Bilge Injections

1

sizes

4"

Connected to condenser, or to circulating pump

B.P.

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

none

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

That pipes are carried through the bunkers

Forward hold suction

How are they protected

under wood ceiling

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

6-2-14

of Stern Tube

6-2-14

Screw shaft and Propeller

25-2-14

Is the Screw Shaft Tunnel watertight

yes

Is it fitted with a watertight door

yes

worked from

Top platform

MILERS, &c.—(Letter for record)

(S)

Manufacturers of Steel

John Spencer & Sons Limited

Total Heating Surface of Boilers

3463 #

Is Forced Draft fitted

no

No. and Description of Boilers

Two single ended main

Working Pressure

180 lbs

Tested by hydraulic pressure to

360

Date of test

29-9-13

No. of Certificate

3153

Can each boiler be worked separately

yes

Area of fire grate in each boiler

52 #

No. and Description of Safety Valves to

Each boiler

two direct spring

Area of each valve

7.068 #

Pressure to which they are adjusted

183

Are they fitted with easing gear

yes

Smallest distance between boiler or uptakes and bunkers or woodwork

19"

2 in

Mean dia. of boilers

13'-6"

Length

10'-6"

Material of shell plates

steel

Thickness

1 1/8"

Range of tensile strength

29 1/2 - 33

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

W.R.

Pitch of rivets

1 1/8"

Diameter of rivet holes in long. seams

1 1/8"

Pitch of rivets

6 7/8"

Lap of plates or width of butt straps

16"

Percentage of strength of longitudinal joint

rivets 90

plate 84.5

Working pressure of shell by rules

181

Size of manhole in shell

16" x 13"

Size of compensating ring

flanged

No. and Description of Furnaces in each boiler

3 plain

Material

steel

Outside diameter

3'-3 3/4"

Length of plain part

top 6'-4 3/8"

bottom 5'-11"

Thickness of plates

crown 4 7/8"

bottom 4 1/4"

Description of longitudinal joint

welded

No. of strengthening rings

none

Working pressure of furnace by the rules

180

Combustion chamber plates: Material

steel

Thickness: Sides

1 1/8"

Back

1 1/8"

Top

1 1/8"

Pitch of stays to ditto: Sides

8 3/4" x 10 1/8"

Back

9 1/4" x 9 3/8"

Top

8 3/8" x 10 1/2"

If stays are fitted with nuts or riveted heads

nuts

sides

Working pressure by rules

181

Material of stays

steel

Diameter at smallest part

2'-0 3/8" x 3 3/8"

Area supported by each stay

89.5 #

Working pressure by rules

206 & 186

End plates in steam space:

Material

steel

Thickness

19/32"

Pitch of stays

18" x 22"

How are stays secured

W.N.

Working pressure by rules

182

Material of stays

steel

Diameter at smallest part

16'-4 1/2"

Area supported by each stay

351 #

Working pressure by rules

192

Material of Front plates at bottom

steel

Thickness

3 3/8"

Greatest pitch of stays

15" x 9 1/4"

Working pressure of plate by rules

182

Diameter of tubes

3 1/2"

Pitch of tubes

4 1/2" x 4 3/8"

Material of tube plates

steel

Thickness: Front

1 3/8"

Back

3/4"

Mean pitch of stays

10"

Pitch across wide water spaces

14 1/4"

Working pressures by rules

F. with 100-262

Girders to Chamber tops: Material

steel

Depth and

Thickness of girder at centre

20 1/2" x 7 1/8"

Length as per rule

2'-4 3/4"

Distance apart

10 1/2"

Number and pitch of stays in each

2 @ 8 3/8"

Working pressure by rules

181

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

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

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 casing 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:— Two connecting rod top and bottom end bolts and nuts two main bearing bolts one set of coupling bolts. one set of feed. bilge. air and circulating pump valves iron and bolts of various sizes. one propeller.

The foregoing is a correct description,
FOR GEORGE CLARK, LIMITED
Manufacturer. of the main Engines & Boilers

Dates of Survey while building
During progress of work in shops -- 1913 March 4. 12. April 17. July 11. 22. 28. Aug. 12. 13. 14. 18. 21. Sep. 2.
During erection on board vessel --- 9. 12. 15. 18. 24. 25. 29. Oct. 1. 9. 10. 13. 27. Nov. 4. 10. Dec. 10. 19. Jan. 22. 2.
Total No. of visits (39)
Is the approved plan of main boiler forwarded herewith yes

Dates of Examination of principal parts—Cylinders 12-8-13 Slides 13-10-13 Covers 21-8-13 Pistons 18-8-13 Rods 29-9-13
Connecting rods 9-10-13 Crank shaft 18-9-13 Thrust shaft 24-9-13 Tunnel shafts 1-10-13 Screw shaft 28-1-14 Propeller 19-12-1
Stern tube 23-1-14 Steam pipes tested 2-3-14 Engine and boiler seatings 6-2-14 Engines holding down bolts 4-3-14
Completion of pumping arrangements 12-3-14 Boilers fixed 4-3-14 Engines tried under steam 5-3-14
Main boiler safety valves adjusted 5-3-14 Thickness of adjusting washers Port BLR. P 3/8 5/16. Star BLR. P 3/8 Full. 5/16
Material of Crank shaft 9. Steel Identification Mark on Do. 8434 K.H. Material of Thrust shaft 9. Steel Identification Mark on Do. 7555 J.M.
Material of Tunnel shafts 9. Steel Identification Marks on Do. 8385-6 K.H. Material of Screw shafts 9. Steel Identification Marks on Do. 2587 M.
Material of Steam Pipes Solid drawn copper 2 @ 4" x 6 W.G. Test pressure 400 lbs per sq. in.

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

The materials and workmanship are good.
The machinery has been made under special survey and is eligible in my opinion for classification and the record + LMC 4.14

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 4.14.

AWD.
9/4/14

The amount of Entry Fee .. £ 2 : - :
Special .. £ 31. 2 : - :
Donkey Boiler Fee .. £ : - :
Travelling Expenses (if any) £ : - :
When applied for, 6.4.14
When received, 11/4/14

Committee's Minute

WED. APR. 15. 1914

Assigned

+ L.M.C. 4.14

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



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Lloyd's Register
Foundation

These papers
Signal Letters

Official No.

135

No., Date, and

Whether British
Foreign Built

British

Number of Dec

Number of Mas

Rigged ...

Stern ...

Build ...

Galleries ...

Head ...

Framework and

vessel ...

Number of Bull

Number of wat

and their cap

Total to quarter the de

to bottom of keel

No. of

sets of

Engines.

Descripti

one

Tuple

No. of

Shafts.

Particu

Description

Number

Iron or Stee

Loaded Pres

one

Under Tonnage, I

Space or space

Turret or Trunk

Forecastle ...

Bridge space

Propeller Break

Side Houses Po

Deck Houses

Chart House

Spaces for machi

Section 78 (2) o

1894 ...

Excess of Hatchw

Gross To

Deductions, as pe

Register

No. of Owners

Name, Residence,

Ident

at 116

Dated

(830). (69862) Wt. 2895