

Rpt. 4.

REPORT ON MACHINERY.

No. 52400
9 1921

Received at London Office

Date of writing Report

19

When handed in at Local Office

7 JUL 1921

Port of

Liverpool

No. in Survey held at
Reg. Book.

Lytham

Date, First Survey Oct 27th 1920 Last Survey June 27th 1921.

on the vessel No. 3.

S/S STEVENSTONE

(Number of Visits 11)

Master

Built at

Bideford

By whom built Hansen S.B. Co.

Engines made at

Lytham

By whom made

Lytham S.B. & Eng. Co.

when made 1921

Boilers made at

S

By whom made

S

when made 1921

Registered Horse Power

Owners

Hansens Shipping Co. Ltd.

Port belonging to

London

Nom. Horse Power as per Section 28

107

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

Yes

ENGINES, &c.—Description of Engines.

Vertical Triple

No. of Cylinders

3 No. of Cranks 3

Dia. of Cylinders 15+25+41

Length of Stroke 27

Revs. per minute 105

Dia. of Screw shaft

as per rule 7-9 8-4

Material of screw shaft M. 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

in the propeller boss

Yes

If the liner is in more than one length are the joints burned

Yes

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

Yes

Length of stern bush 3-3

Dia. of Tunnel shaft

as per rule 7-48

Dia. of Crank shaft journals

as per rule 6-9 7-86

Dia. of Crank pin 8 1/2

Size of Crank webs 12x5 1/4

Dia. of thrust shaft under

collars 8

Dia. of screw 10-3

Pitch of Screw 11-3

No. of Blades 4

State whether moveable No

Total surface 380'

No. of Feed pumps 2

Diameter of ditto 2 1/2

Stroke 12

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps 2

Diameter of ditto 2 1/2

Stroke 12

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines 2

Sizes of Pumps

fed 6+4x6; ballast 9+9x10"

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

In Engine Room 2-2 1/2 wing 1-2 1/2 under 1-2 1/2 aft

In Holds, &c. 2-2 1/2

No. of Bilge Injections 1

sizes 4"

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

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

Hold suction

How are they protected

Wood 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

Is the Screw Shaft Tunnel watertight

Yes

Is it fitted with a watertight door

Yes

worked from

BOILERS, &c.—(Letter for record S)

Manufacturers of Steel

Messrs Beardmore & Co.

Total Heating Surface of Boilers

1824

Is Forced Draft fitted

No

No. and Description of Boilers

2, cylindrical

2179 2180

Working Pressure

180

Tested by hydraulic pressure to

360

Date of test 27.6.21

No. of Certificate

2179 2180

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

300

No. and Description of Safety Valves to

each boiler 2, spring loaded

Area of each valve

3.14

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

10-6"

Length 10'

Material of shell plates

M.S.

Thickness

29/32

Range of tensile strength

28-32

Are the shell plates welded or flanged

No

Descrip. of riveting

long seams full butt

are seams

D.R. lap

Diameter of rivet holes in long. seams

1 1/16"

Pitch of rivets

7/8"

Lap of plates or width of butt straps

1 1/4"

Per centages of strength of longitudinal joint

rivets 102

plate 85.1

Working pressure of shell by rules

186

Size of manhole in shell

16x12

Size of compensating ring

7x3x7/8

No. and Description of Furnaces in each boiler

2, corrugated

Material

M.S.

Outside diameter

3-4 1/2"

Length of plain part

top

bottom

Thickness of plates

crown 3/2"

bottom 3/2"

Description of longitudinal joint

weld

No. of strengthening rings

Yes

Working pressure of furnace by the rules

187

Combustion chamber plates: Material

M.S.

Thickness: Sides

5/8"

Back

5/8"

Top

5/8"

Bottom

1 1/16"

Pitch of stays to ditto: Sides

9x8"

Back

9x8 1/4"

Top

9x8"

If stays are fitted with nuts on riveted heads

Yes

Working pressure by rules

181

Material of stays

M.S.

Area at smallest part

1.79

Area supported by each stay

74.53

Working pressure by rules

217

End plates in steam space:

Material

M.S.

Thickness

3/32"

Pitch of stays

15x14"

How are stays secured

2 nuts, 6" washers

Working pressure by rules

195

Material of stays

M.S.

Area at smallest part

3.67

Area supported by each stay

2.10

Working pressure by rules

181

Material of Front plates at bottom

M.S.

Thickness

3/32"

Material of Lower back plate

M.S.

Thickness

1/2"

Greatest pitch of stays

as per plan

Working pressure of plate by rules

180

Diameter of tubes

3 1/2"

Pitch of tubes

4 1/4 x 4 5/8"

Material of tube plates

M.S.

Thickness: Front

3/32"

Back

3/4"

Mean pitch of stays

9 1/2 x 9 1/4"

Pitch across wide water spaces

15

Working pressures by rules

236

Girders to Chamber tops: Material

M.S.

Depth and

Thickness of girder at centre

7 1/2 x 7 1/2"

Length as per rule

30"

Distance apart

8"

Number and pitch of stays in each

2, 9"

Working pressure by rules

190

Steam dome: description of joint to shell

Yes

% of strength of joint

Yes

Diameter

Yes

Thickness of shell plates

Yes

Material

M.S.

Description of longitudinal joint

Yes

Diam. of rivet holes

Yes

Pitch of rivets

Yes

Working pressure of shell by rules

Yes

Crown plates

Yes

Thickness

Yes

How stayed

Yes

SUPERHEATER.

Type

Yes

Date of Approval of Plan

Yes

Tested by Hydraulic Pressure to

Yes

Date of Test

Yes

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve

Yes

Pressure to which each is adjusted

Yes

Is Easing Gear fitted

Yes

Lloyd's Register

Foundation

W717-0124

