

REPORT ON MACHINERY.

No. 43751

Received at London Office

WED. JUL 2 1924

Date of writing Report

19

When handed in at Local Office

23. 6. 1924 Port of Glasgow.

Place in Survey held at

Coatbridge, Parkhead, Dalmeir.

Date, First Survey

25th March 1924

Last Survey

21st June 1924

1924

Reg. Book.

on the T. S. S. CONCHITA.

Number of Visits 25

Gross 2702 Tons

Net 1481 Tons

Master

Built at Dalmeir

By whom built W. Beardmore & Co. Ltd

When built 1924

Engines made at

Coatbridge

By whom made

W. Beardmore & Co. Ltd

when made 1924

Boilers made at

Parkhead.

By whom made

W. Beardmore & Co. Ltd

when made 1924

Registered Horse Power

252

Owners Curacao'sche Scheep Maats.

Port belonging to Willemstad.

Is Refrigerating Machinery fitted for cargo purposes

No.

Is Electric Light fitted Yes

Description of Engines

Triple expansion

No. of Cylinders 3

No. of Cranks 3

Dia. of Cylinders

14, 23, 38

Length of Stroke 27

Revs. per minute 140

Dia. of Screw shaft 8

Material of screw shaft S

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

Yes. VICKERS GLAND

Is the propeller boss

Yes. If the liner is in more than one length are the joints burned E.W.

Is the space charged with a plastic material insoluble in water and non-corrosive

Yes.

Length of stern bush

34

Dia. of Tunnel shaft

4.114

Dia. of Crank shaft journals

4.425

Dia. of Crank pin 7.74

Size of Crank webs 5 x 3.5

Dia. of thrust shaft under collars

4.3/4

Dia. of screw 8.9

Pitch of Screw 8.0

No. of Blades 4

Total surface 28 sq ft

No. of Feed pumps

2

Diameter of ditto 5

Stroke 4.74

Can one be overhauled while the other is at work Yes

No. of Bilge pumps

2

Diameter of ditto 5

Stroke 4.74

Can one be overhauled while the other is at work Yes

No. of Donkey Engines

GENERAL SERVICE PUMP

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

In Engine Room

3-3, 7-7.4, Cofferdam 2-2.74, In Holds, &c. Pump room 3-4, No. 1. Wing tanks. 2-4.

No. of Bilge Injections

One size 7.5

Connected to condenser, or to circulating pump Yes

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

Yes.

Are all connections with the sea direct on the skin of the ship

Yes.

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

Yes.

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.

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.

Manufacturers of Steel plates

W. Beardmore, Stays, & Colville & Co.

Total Heating Surface of Boilers

4100

Is Forced Draft fitted

Yes.

No. and Description of Boilers

Two, S.E. Return tube.

Working Pressure

180

Tested by hydraulic pressure to

320

Date of test

24.25.24

No. of Certificate

16485

Can each boiler be worked separately

Yes.

Area of fire grate in each boiler

Oil fired.

No. and Description of Safety Valves to each boiler

2 Direct Spring

Area of each valve

12.5

Pressure to which they are adjusted

185

Are they fitted with easing gear

Yes.

Smallest distance between boilers or uptakes and bunkers or woodwork

3.6

Dia. of boilers

13.0

Length

12.3

Material of shell plates

S.

Thickness

1.5/32

Range of tensile strength

23/22

Are the shell plates welded or flanged

No.

Description of riveting: cir. seams

D.R.L.

long. seams

T.R.D.B.S.

Diameter of rivet holes in long. seams

1.74

Pitch of rivets

8.5

Top of plates or width of butt straps

18.5/16

Per centages of strength of longitudinal joint

rivets 96.15, plate 85.29

Working pressure of shell by rules

184

Size of manhole in shell

20 x 16

No. and Description of Furnaces in each boiler

2, No. 1, 2, cf.

Material

S.

Outside diameter

3.6.7/8

Length of plain part

10.7/8

Thickness of plates

7/16

Description of longitudinal joint

Welded

No. of strengthening rings

1

Working pressure of furnace by the rules

193

Combustion chamber plates: Material

S.

Thickness: Sides

7/8

Back

3/4

Top

7/8

Bottom

7/8

Pitch of stays to ditto: Sides

8.2 x 9.7/8

Back

8 x 8.5

Top

9 x 9.7/8

If stays are fitted with nuts or riveted heads

riveted.

Working pressure by rules

193

Material of stays

S.

Area supported by each stay

62

Working pressure by rules

185

End plates in steam space: Material

S.

Thickness

1.5/32

Pitch of stays

18

How are stays secured

TAPPED THROUGH PLATE, NUT & WASHER OUTSIDE.

Working pressure by rules

180

Material of Front plates at bottom

S.

DIA. OVERTHEADS. 3.74

Area supported by each stay 384

Working pressure by rules

222

Material of Lower back plate

S.

Thickness

13/16

Greatest pitch of stays

14 x 8

Working pressure of plate by rules

206

Diameter of tubes

2.74

Pitch of tubes

4

Material of tube plates

S.

Thickness: Front

15/16

Back

3/4

Mean pitch of stays

9.74

Pitch across wide water spaces

14

Working pressures by rules

204

Girders to Chamber tops: Material

S.

Depth and thickness of girder at centre

2.8 x 7.4

Length as per rule

2.4.2

Distance apart

9

Number and pitch of stays in each

2 @ 9.7/8

Working pressure by rules

186

Steam dome: description of joint to shell

None fitted.

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

Tested by Hydraulic Pressure to

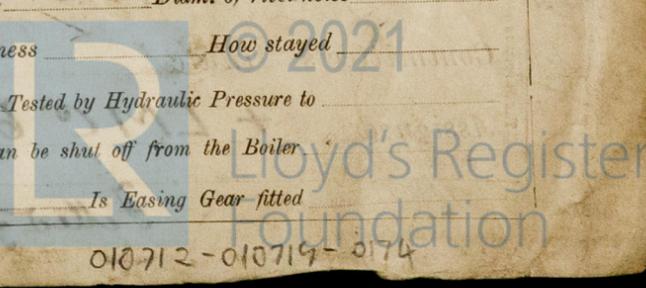
Date of Test

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

Pressure to which each is adjusted

Is Easing Gear fitted

Diameter of Safety Valve



010712-010719-0174

