

REPORT ON MACHINERY.

No. 40480

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Date of writing Report 11. 10 1920 When handed in at Local Office 12. 10 1920 Port of Glasgow

No. in Survey held at Glasgow

Date, First Survey 12. 3. 1920

Last Survey 8th October 1920

Reg. Book.

on the s/s *Portlincor*

(Number of Visits 15)

Master

Built at *Barnstaple*

By whom built

British Construction Co. Ltd (171)

Tons

Gross

Net

When built

Engines made at

Clydebank

By whom made

Aitchison Blair Ltd (131)

when made 1920

Boilers made at

Glenoch

By whom made

John G. Fincaid & Co. Ltd (92)

when made 1920

Registered Horse Power

Owners

R. P. Carr & Co. Ltd

Port belonging to

Cardiff

Nom. Horse Power as per Section 28 73.2

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

No

ENGINES, &c.—Description of Engines

Triple

No. of Cylinders 3

No. of Cranks 3

Dia. of Cylinders 12" 20" 32"

Length of Stroke 24"

Revs. per minute 110

Dia. of Screw shaft

as per rule 4.46

Material of

screw shaft 8

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 2' 6"

Dia. of Tunnel shaft as per rule 6.16

Dia. of Crank shaft journals as per rule 6.218

as fitted 6.48

Dia. of Crank pin 6.2

Size of Crank webs 24" 416

Dia. of thrust shaft under

collars 6.2

Total surface 28.8

No. of Feed pumps 2

Diameter of ditto 1.8"

Stroke 12"

Can one be overhauled while the other is at work *Yes*

No. of Bilge pumps 2

Diameter of ditto 2"

Stroke 12"

Can one be overhauled while the other is at work *Yes*

No. of Donkey Engines 2

Sizes of Pumps

*Ballast 6" x 6" x 6"**Donkey 5" x 3.5" x 6"*

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

In Engine Room 2 - 3"

In Holds, &c. 2 - 2" 2 - 3"

No. of Bilge Injections 1

sizes 3.5"

Connected to condenser, or to circulating pump *Yes*

Is a separate Donkey Suction fitted in Engine room & size 1 - 3"

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 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 *Hot steam*

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)

Manufacturers of Steel

Total Heating Surface of Boilers 1372.5

Is Forced Draft fitted *No*

No. and Description of Boilers

One Single ended.

Working Pressure 180 lbs

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Area of fire grate in each boiler

46.58 sq ft

No. and Description of Safety Valves to

each boiler 2 Spring loaded

Area of each valve

4.9 sq ft

Pressure to which they are adjusted

*180 lbs*Are they fitted with easing gear *Yes*

Smallest distance between boilers or uptakes and bunkers or woodwork 4' 0"

Mean dia. of boilers

Length

Material of shell plates

Thickness

Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

Per centages of strength of longitudinal joint

rivets

Working pressure of shell by rules

Size of manhole in shell

Size of compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

Length of plain part

Thickenss of plates

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

Material of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space:

Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch across wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

thickness of girder at centre

Length as per rule

Distance apart

Number and pitch of stays in each

Working pressure by rules

Steam dome: description of joint to shell

% 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

SUPERHEATER. Type

Date of Approval of Plan

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 Valves

Pressure to which each is adjusted

Is Easing Gear fitted

Pressure to which each is adjusted

Is Easing Gear fitted

Pressure to which each is adjusted

Is Easing Gear fitted

Pressure to which each is adjusted

Is Easing Gear fitted

Pressure to which each is adjusted

Is Easing Gear fitted

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Assigned Deferred