

Date of writing Report

19

When handed in at Local Office

8.5

10.24 Port of

Belfast

No. in Survey held at

Belfast

Date, First Survey 1923 Sept. 21st. Last SurveyMay 4th 1924

Reg. Book.

on the New Steel S.S. Arlington Court

(Number of Vials)

Gross 4914.95

Net 2985.29

Master

Built at

Belfast

By whom built

Workman Black & Co Ltd

When built

1924

Engines made at

Belfast

By whom made

Workman Black & Co Ltd (H69)

when made

1924

Boilers made at

Belfast

By whom made

Workman Black & Co Ltd

when made

1924

Registered Horse Power

Owners

Court Line Co Ltd

Port belonging to

London

Nom. Horse Power as per Section 28

H1X

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

26, 14, 10

Length of Stroke

14

Revs. per minute

62

Dia. of Screw shaft

14.47

Material of screw shaft

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

Length of stern bush

5'-0"

Dia. of Tunnel shaft

as per rule 12.4

Dia. of Crank shaft journals

as per rule 12.5

as fitted

14.0

Dia. of Crank pin

14.4

Size of Crank webs

8.8

Dia. of thrust shaft under

collars

14

Dia. of screw

14.6

Pitch of Screw

14.0

No. of Blades

4

State whether moveable

No

Total surface

98.4

No. of Feed pumps

2

Diameter of ditto

4.4

Stroke

2.4

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

2

Diameter of ditto

4.4

Stroke

2.4

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

See list

Sizes of Pumps

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

In Engine Room

8.4

2.03

BR 2.03

1 spec 4.8

In Holds, &c. No 1 2.03, No 2 2.03, No 3 2.03

No. of Bilge Injections

1

size 8

Connected to condenser, or to circulating pump

C.P.

Is a separate Donkey Suction fitted in Engine room & size

Yes 4.8

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

Bilge suction

How are they protected

Wood casings

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

top platform

BOILERS, &c.—(Letter for record

Manufacturers of Steel

W Beadmore & Co Ltd

358

Total Heating Surface of Boilers

4014

Is Forced Draft fitted

No

No. and Description of Boilers

3 Single Ended

Working Pressure

180 lbs

Tested by hydraulic pressure to

320 lbs

Date of test

18-3-24

No. of Certificate

836

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

66.125

No. and Description of Safety Valves to

each boiler

2 Spring loaded

Area of each valve

5.9

Pressure to which they are adjusted

185 lbs

Are they fitted with easing gear

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

2'-6"

Mean dia. of boilers

15'-6"

Length

11'-0"

Material of shell plates

Steel

Thickness

1 1/4"

Range of tensile strength

28 to 32 tons

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

D.R.

long. seams

T.R.D.B.S

Diameter of rivet holes in long. seams

1 1/4"

Pitch of rivets

8 1/2"

Lap of plates or width of butt straps

18 1/2"

Per centages of strength of longitudinal joint

rivets 85.9

plate 85.9

Working pressure of shell by rules

181.5

Size of manhole in shell

16" x 12"

Size of compensating ring

2-9 1/4 x 2-6 3/4

No. and Description of Furnaces in each boiler

3 Cor

Material

Steel

Outside diameter

4'-1 1/4"

Length of plain part

top

bottom

Thickness of plates

crown 19

bottom 32

Description of longitudinal joint

weld

No. of strengthening rings

Yes

Working pressure of furnace by the rules

184.2

Combustion chamber plates: Material

Steel

Thickness: Sides

1 1/2"

Back

1 1/2"

Top

1 1/2"

Bottom

Pitch of stays to ditto: Sides

8" x 9"

Back

9 1/4" x 9 1/4"

Top

8" x 10"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

186.3 lbs

Material of stays

Iron

Area at smallest part

13.203

Area supported by each stay

84.4

Working pressure by rules

180 lbs

End plates in steam space:

Material

Steel

Thickness

1 3/16"

Pitch of stays

19 1/4" x 21 1/2"

How are stays secured

D.N. Wash

Working pressure by rules

182.5 lbs

Material of stays

Steel

Area at smallest part

6.66

Area supported by each stay

34.9

Working pressure by rules

189 lbs

Material of Front plates at bottom

Steel

Thickness

3/32"

Material of Lower back plate

Steel

Thickness

2 1/32"

Greatest pitch of stays

15 1/16" x 15 1/16"

Working pressure of plate by rules

184 1/2 lbs

Diameter of tubes

3 1/4"

Pitch of tubes

4 1/2" x 4 1/2"

Material of tube plates

Steel

Thickness: Front

3 1/32"

Back

1 1/16"

Mean pitch of stays

11 1/8"

Pitch across wide water spaces

14 1/4" x 8 3/4"

Working pressures by rules

203 lbs

Girders to Chamber tops: Material

Steel

Depth and

thickness of girder at centre

20 9/16" x 3 1/4"

Length as per rule

2'-10 1/2"

Distance apart

Working pressure by rules

185 lbs

Steam dome: description of joint to shell

None

% of strength of joint

Yes

Diameter

Yes

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Yes

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER. Type

None

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

Yes

Diameter of Safety Valve

Yes

Pressure to which each is adjusted

Is Easing Gear fitted

Yes

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

If so, is a report now forwarded?


The foregoing is a correct description,
FOR WORKMAN, CLARK & CO., LIMITED.

Manufacturer.

Is the approved plan of main boiler forwarded herewith No ✓
 will forward with % 4-10
 " " " donkey " " " ✓

Is an installation fitted for burning oil fuel ☒ No ☐ Yes Is the flash point of the oil to be used over 150°F. ☒ Yes ☐ No

Is this machinery duplicate of a previous case no If so, state name of vessel _____

General Remarks (State quality of workmanship, opinions as to class, etc.)
The Machinery of this Vessel has been built under Special Survey.
Materials + workmanship good, hydraulic tests satisfactory.
The whole of the Machinery has been satisfactorily installed
& tried in the vessel and tried under steam & is in good
& safe working condition & eligible in my opinion to be
classified & have records.  L M C. 5-24. Tail Shaft C.L.
5 ft. Elect St.

It is submitted that
this vessel is eligible for

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 5.24. CL

2 Ballast duplex $8 \times 10 \frac{1}{2} \times 10$, 1 Centrifugal circulating $11" \text{ suet} \times 39" \text{ dia impeller}$
1 Evaporator feed pp. duplex $3 \frac{1}{2} \times 2 \frac{1}{2} \times 3 \frac{1}{2}$, 1 General service duplex pp $8 \times 6 \times 8$.
2 Weirs feed pps. $4" \times 9 \frac{1}{2} \times 21$.

Kill in Butter.

Engineer Surveyor to Lloyd's Register of Shipping

Assigned

MAY 13 1974 *666*
+ Lmb 5-24

✓
CERTIFICATE WRITTEN