

## REPORT ON MACHINERY.

No. 40,105

Received at London Office

WED. JUN. 23 1920

Date of writing Report

19

When handed in at Local Office

19-6-

10 20 Port of

Glasgow

No. in Survey held at

Glasgow

Reg. Book.

on the

S.S. "Jellicoe Rose"

Date, First Survey

9-10-19

Last Survey

15 June

1920

(Number of Visits

23

Master

Built at

Paisley

By whom built

J. Lullerton &amp; Co. (265)

Tons

Gross 1118

Net 609

When built

1920

Engines made at

Glydebank

By whom made

Aitchison Blair &amp; Co. (122)

when made

1920

Boilers made at

Renfrew

By whom made

Lobnitz &amp; Co. (4401B)

when made

1919

Registered Horse Power

Owners

Richard Hughes &amp; Co.

Port belonging to

Liverpool

Nom. Horse Power as per Section 28

116-5

117.

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

No.

ENGINES, &amp;c.—Description of Engines

Triple

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

16-26-42

Length of Stroke

24

Revs. per minute

110

Dia. of Screw shaft

as per rule 8-3/4

Material of

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

in the propeller boss

Yes

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

No

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

No

If two

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

No

Length of stern bush

3'-0"

Dia. of Tunnel shaft

as per rule

None

Dia. of Crank shaft journals

as per rule

8-228/12

Dia. of Crank pin

8-1/4

Size of Crank webs

15-3/4 x 5-1/2

Dia. of thrust shaft under

collars

8-1/4

Dia. of screw

10-6

Pitch of Screw

11-6

No. of Blades

4

State whether moveable

No

Total surface

35 sq

No. of Feed pumps

2

Diameter of ditto

3

Stroke

13-1/2

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

2

Diameter of ditto

3

Stroke

13-1/2

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

2

Sizes of Pumps

Hed 6 x 1-1/4 x 6

San Donia 4-1/4 x 8

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

In Engine Room

2 @ 2-1/4 Dia

In Holds, &amp;c. 2 @ 2" Dia

No. of Bilge Injections

1 sizes

4

Connected to condenser, or to circulating pump

No

Is a separate Donkey Suction fitted in Engine room &amp; size

1-2 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

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

What pipes are carried through the bunkers

None

How are they protected

Yes

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

None

Is it fitted with a watertight door

Yes

worked from

Yes

BOILERS, &amp;c.—(Letter for record

8)

Manufacturers of Steel

Steel Co. of Scotland.

I.S.B.

Total Heating Surface of Boilers

2030 sq

Is Forced Draft fitted

No

No. and Description of Boilers

1 S.E. Multi-tubular

Working Pressure

180

Tested by hydraulic pressure to

360

Date of test

9-6-19

No. of Certificate

14444

Can each boiler be worked separately

No

Area of fire grate in each boiler

64-4 sq

No. and Description of Safety Valves to

each boiler

2 Spring loaded

Area of each valve

1-068 sq

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"

Mean dia. of boilers

15'-0"

Length

10'-6"

Material of shell plates

S

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

top

Thickness of plates

crown

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

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted



IS A DONKEY BOILER FITTED?

Yes

If so, is a report now forwarded?

Yes.

SPARE GEAR. State the articles supplied:— 2 Top end, 2 bottom end bolts, 2 main bearing bolts, 1 set coupling bolts, 1 set of feed and bilge pump valves, 2 quantity assorted bolts & nuts, Iron of various sizes, 1 set air pump valves, 1 set circulating pump valves, 6 boiler tubes, 6 condenser tubes, 12 screws & 20 firebars

The foregoing is a correct description,

MITCHISON, BLAIR LTD.

Arch Blair

Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1918 Oct 9-24 1919 Jan 10 Feb 12 28 Apr 4 22 May 14 26 June 7 July 1-31 Sept 18 Nov 10  
During erection on board vessel - - 1920 Mar 22-30 Apr 6-13-20 May 20 June 2-15  
Total No. of visits 23

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 22.4.19 Slides 31.4.19 Covers 31.4.19 Pistons 31.4.19 Rods 31.4.19  
Connecting rods 31.4.19 Crank shaft 12.2.19 Thrust shaft 1.4.19 Tunnel shafts None Screw shaft 18.9.19 Propeller 18.9.19  
Stern tube 22.3.20 Steam pipes tested 26.5.20 Engine and boiler seatings 6.4.20 Engines holding down bolts 2.6.20  
Completion of pumping arrangements 15.6.20 Boilers fixed 2.6.20 Engines tried under steam 15.6.20  
Completion of fitting sea connections 20.4.20 Stern tube 30.3.20 Screw shaft and propeller 20.4.20  
Main boiler safety valves adjusted 11.6.20 Thickness of adjusting washers Port 3/32 Starboard 3/32  
Material of Crank shaft S Identification Mark on Do. LAYDS 12.2.19 Material of Thrust shaft S Identification Mark on Do. 12.2.19  
Material of Tunnel shafts None Identification Marks on Do. ✓ Material of Screw shafts S Identification Marks on Do. ✓  
Material of Steam Pipes Copper Test pressure 360 lbs.  
Is an installation fitted for burning oil fuel ✓ Is the flash point of the oil to be used over 150°F. ✓  
Have the requirements of Section 49 of the Rules been complied with ✓  
Is this machinery duplicate of a previous case Yes If so, state name of vessel SS "Ardglass"

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

The Engines and Boiler of this Vessel have been built under Special Survey, workmanship and materials are good, they have been well fitted on board, and under steam and found to work satisfactorily.

The Machinery of this Vessel is eligible in my opinion for the Record of +L.M.C. 6.20 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD +L.M.C. 6.20.

H.T.C.

25/6/20.

J.M. J.W.

The amount of Entry Fee ... £ 2 : - : When applied for, 22-6-1920  
Special ... £ 14 : 11 : 22-6-1920  
Donkey Boiler Fee ... £ 4 : 0 : 0 When received, 25/6/20  
Travelling Expenses (if any) £ : : : 25/6/20

Committee's Minute

GLASGOW 22 JUN 1920

Assigned

+L.M.C. 6.20.

MACHINERY CERTIFICATE  
WRITTEN 23/6/20

Thos. Gurney  
Engineer Surveyor to Lloyd's Register of Shipping



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