

## 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.

Date in Survey held at

Coatbridge, Parkhead, Dalmeir.

Date, First Survey

25th March 1924

Last Survey

21st June 1924

Reg. Book.

T. S. S. CONCHITA.

Master

Built at

Dalmeir

By whom built

W. Beardmore &amp; Co. Ltd.

When built

1924

Engines made at

Coatbridge

By whom made

W. Beardmore &amp; Co. Ltd.

when made

1924

Boilers made at

Parkhead.

By whom made

W. Beardmore &amp; Co. Ltd.

when made

1924

Registered Horse Power

Owners Eurocaische Schepu Maats.

Port belonging to Willemstad.

Nom. Horse Power as per Section 28

252.

Is Refrigerating Machinery fitted for cargo purposes

No.

Is Electric Light fitted

Yes

Engines, &amp;c.

Description of Engines

Triple expansion

No. of Cylinders

3. PORT 3. STAR 3. S.

No. of Cranks

3. S.

Dia. of Cylinders

14. 23. 38.

Length of Stroke

24.

Revs. per minute

140.

Dia. of Screw shaft

as per rule 7.114. as fitted 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

the propeller boss

Yes. VICKERS GLAND

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

34.

Dia. of Tunnel shaft

as per rule 4.114. as fitted 4.114.

Dia. of Crank shaft journals

as per rule 4.114. as fitted 4.114.

Dia. of Crank pin

7.14.

Size of Crank webs

5 x 3.5.

Dia. of thrust shaft under

collars

Collars

7.14.

Dia. of screw

8-9.

Pitch of Screw

8-0.

No. of Blades

4.

State whether moveable

No.

No. of Feed pumps

2.

Diameter of ditto

5.

Stroke

4.14.

Can one be overhauled while the other is at work

Yes.

No. of Bilge pumps

2.

Diameter of ditto

5.

Stroke

4.14.

Can one be overhauled while the other is at work

Yes.

No. of Donkey Engines

GENERAL SERVICE PUMP

SIZES OF PUMPS

7.14. x 5.14.

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

In Engine Room 3-3. 7-7.14. Cofferdam 2-2.14. In Holds, &amp;c. Pump room 3-4. No. 1. Wing tanks. 2-4.

Ballast Room

1-2.14. Fore hold 1-2.14. Fore flat tank top 2-2.14.

No. of Bilge Injections

One sizes 7.14.

Connected to condenser, or to circulating pump

Yes.

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

Yes. 3.

Are all the bilge suction pipes fitted with roses

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

None.

How are they protected

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

Is it fitted with a watertight door

worked from

BOILERS, &amp;c. (Letter for record

S.)

Manufacturers of Steel plates

W. Beardmore, Stays &amp; Colville &amp; 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

24.2.25.4.24.

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 boiler 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

28/22.

Are the shell plates welded or flanged

No.

Descrip. of riveting: cir. seams

D.R.L.

long. seams

T.R.D.B.S.

Diameter of rivet holes in long. seams

1.14.

Pitch of rivets

8.1/2.

Top of plates or width of butt straps

18.9/16.

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".

Size of compensating ring

11" x 1.5/32.

No. and Description of Furnaces in each boiler

2. No. 1. No. 2. C.F.

Material

S.

Outside diameter

3-6.1/8.

Length of plain part

top 10.7/8. bottom 10.7/8.

Thickness of plates

crown 7/16. bottom 7/16.

Description of longitudinal joint

Welded.

No. of strengthening rings

Yes.

Working pressure of furnace by the rules

193.

Combustion chamber plates: Material

S.

Thickness: Sides

7/8.

Back

3/4.

Top

7/8.

Bottom

Pitch of stays to ditto

Sides 8.1/2 x 9.1/8. Back 8 x 8.1/2. Top 9 x 9.1/8.

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

S.

Material

S.

Thickness

1.5/32.

Pitch of stays

18.

How are stays secured

TAPPED THE PLATE.

Working pressure by rules

180.

Material

S.

Thickness

1.5/32.

Pitch of stays

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How are stays secured

TAPPED THE PLATE.

Working pressure by rules

180.

Material



IS A DONKEY BOILER FITTED?

No.

If so, is a report now forwarded?

SPARE GEAR.

State the articles supplied:—

1 Section of Crankshaft. 1 Propeller shaft.  
2 C.D. Propellers. 1 Eccentric strap and sheave complete. 1 Engine Guide shoe.  
1 set of Piston rings for 1 engine. 1 Piston rod. 1 Valve spindle complete.  
1 Pair of top end and 1 pair Bottom end brasses with bolts and nuts complete.  
1 Feed pump plunger and valves. 1 Bilge pump plunger and valves. 1 set of  
coupling bolts and nuts. 2 Main bearing bolts and nuts. 1 spring of each size used.  
Assorted bolts and nuts. Iron of various sizes.

The foregoing is a correct description,

FOR WILLIAM BEARDMORE & CO., LIMITED

W. Beith

Manufacturer.

Dates  
of Survey  
while  
building

During progress of  
work in shops --  
During erection on  
board vessel --  
Total No. of visits

Feb 15-19. 28 Mar 7. 13

1924 Mar 25 Apr 4 9 14 17 24 28 29 May 5 28 29 30 Jun 4 9 12 18 24

Is the approved plan of main boiler forwarded herewith

Yes

" " " donkey " " "

Yes

Dates of Examination of principal parts—

Cylinders 4/4/24 Slides 4/4/24 Covers 4/4/24 Pistons 4/4/24 Rods 29/4/24  
Connecting rods 4/4/24 Crank shaft 4/4/24 Thrust shaft 17/4/24 Tunnel shafts 17/4/24 Screw shaft 17/4/24 Propeller 17/4/24  
Stern tube 17/4/24 Steam pipes tested 30/5/24 4/6/24 Engine and boiler seatings 28/4/24 Engines holding down bolts 4/6/24

Completion of pumping arrangements 12/6/24

Boilers fixed 4/6/24

Engines tried under steam 21/6/24

Completion of fitting sea connections 28/4/24

Stern tube 28/4/24

Screw shaft and propeller 28/4/24

Main boiler safety valves adjusted 18/6/24

Thickness of adjusting washers

F 5/16 A 3/8 F 5/16 A 3/8

Material of Crank shafts Steel Identification Mark on Do. 386 JD

Material of Thrust shafts Steel Identification Mark on Do. 386 JD

Material of Tunnel shafts Steel Identification Marks on Do. " "

Material of Screw shafts Steel Identification Marks on Do. " "

Material of Steam Pipes Steel

Test pressure 540 lbs.

Is an installation fitted for burning oil fuel

Yes

Is the flash point of the oil to be used over 150°F.

Yes

Have the requirements of Section 49 of the Rules been complied with

Yes

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, &c.)

The machinery of this vessel has been built under special survey in accordance with the approved plans and the Rules of this Society.

The materials and workmanship are good.

The machinery has been well fitted on board the vessel and tried under full power with satisfactory results.

This vessel is eligible, in our opinion, to have record of survey + LMC 6-24. with notation. Fitted for oil fuel, flash point above 150°F. and TS 6-24. CL. OG. in the Register Book.

It is submitted that this vessel is eligible for THE RECORD.

+ LMC 6.24. FD. OG. CL.

Fitted for oil fuel 6.24 F.P. above 150°F.

The amount of Entry Fee ... £ 5 : 0 : 0

Special ... £ 37 : 13 : 0

Donkey Boiler Fee ... £

Travelling Expenses (if any) £

When applied for,

When received,

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW

1 JUL 1924

CERTIFICATE WRITTEN 14.8.24

Assigned

+ LMC 6,24

FD

W. M. L.

Fitted for oil fuel 6.24 F.P. above 150°F.

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