

Date of writing Report

1918 15th Dec 1917 at Local Office

19

Port of Glasgow

No. in Survey held at Glasgow
Reg. Book.

Date, First Survey 22nd Dec 1916

Last Survey 8th Dec 1917

on the

S.S. "Margha"

Master

Built at Glasgow

By whom built

Barclay Curle & Co. (575)

Tons

Gross 8258

Net 5091

When built

1917

Engines made at Glasgow

By whom made

Barclay Curle & Co. (575)

when made

1917

Boilers made at Glasgow

By whom made

Barclay Curle & Co. (575)

when made

1917

Registered Horse Power

Owners

British India Steam Navigation Co. Ltd. Port belonging to Glasgow

Nom. Horse Power as per Section 28

900

Is Refrigerating Machinery fitted for cargo purposes

Yes

Is Electric Light fitted

Yes

ENGINES, &c.—Description of Engines

Twin, Triple expansion

No. of Cylinders

No. of Cranks

Dia. of Cylinders 21" 30 1/2" 61"

Length of Stroke

45"

Revs. per minute

87

Dia. of Screw shaft

13 1/4"

Material of

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

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

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

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

Length of stern bush

Dia. of Tunnel shaft

Dia. of Crank shaft journals

Dia. of Crank pin

Size of Crank webs

Dia. of thrust shaft under collars

No. of Feed pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Bilge pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Donkey Engines

Sizes of Pumps

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

In Engine Room

In Holds, &c.

No. of Bilge Injections

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room

Are all the bilge suction pipes fitted with roses

Are the roses in Engine room always accessible

Are the sluices on Engine room bulkheads always accessible

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

Are they Valves or Cocks

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

Are the Discharge Pipes above or below the deep water line

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel

Are the Blow Off Cocks fitted with a spigot and brass covering plate

What pipes are carried through the bunkers

How are they protected

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

Dates of examination of completion of fitting of Sea Connections

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

BOILERS, &c.—(Letter for record)

Manufacturers of Steel

W. & A. R. & Sons Ltd. Beardmore & Co.

Total Heating Surface of Boilers

Is Forced Draft fitted

No. and Description of Boilers

Working Pressure

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of Safety Valves to each boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

Smallest distance between boilers or uptakes and bunkers or woodwork

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

Working pressure of shell by rules

Size of compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

Length of plain part

Thickness 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

Diameter 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

Superheater or Steam chest; how connected to boiler

Can the superheater be shut off and the boiler worked separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

If stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

IS A DONKEY BOILER FITTED? *no*

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—*2 top end bolts & nuts, 2 bottom end bolts & nuts, 1 set of coupling bolts & nuts, 2 main bearing bolts & nuts, fuel & oil pump valves, iron, bolts & nuts of various sizes.*

The foregoing is a correct description,
FOR BARCLAY, CURLE & CO., LTD.

John Alexander

Manager

Manufacturer.

Dates of Survey while building { During progress of work in shops - *19/6 Feb. 22 23 Dec. 3 14 22 Apr. 26 May 14 18 29 June 8 13 14 19 20 28 29 July 1 4 7 10 11 12 14 19 24 31 Aug. 2 4 11*
During erection on board vessel - *14/6 14 16 19 20 22 26 28 Oct. 1 4 6 16 23 30 Nov. 2 3 8 13 15 30 Dec. 8 9 14 Jan. 19 24 26 29 30 Feb. 1 4 18 June 6 13 25 Aug. 6 14 21 24 28*
Total No. of visits *14* Is the approved plan of main boiler forwarded herewith *yes*

Dates of Examination of principal parts—Cylinders *19/7/16 20/6/16* Slides *4/10/17* Covers *20/6/16 19/7/16* Pistons *4/10/17* Rods *4/10/17*
Connecting rods *4/10/17* Crank shaft *24/1/17* Thrust shaft *26/1/17* Tunnel shafts *3/1/17 24/1/17* Screw shaft *29/5/16* Propeller *7/5/17*
Stern tube *13/6/17 25/6/17* Steam pipes tested *4/10/17* Engine and boiler seatings *21/8/17* Engines holding down bolts *18/10/17*
Completion of pumping arrangements *18/10/17* Boilers fixed *4/10/17* Engines tried under steam *8/12/17*

Main boiler safety valves adjusted *16/1/17* Thickness of adjusting washers *4/10/17* Engines tried under steam *8/12/17*

Material of Crank shaft *steel* Identification Mark on Do. *275-276* Material of Thrust shaft *steel* Identification Mark on Do. *39-40*

Material of Tunnel shafts *steel* Identification Marks on Do. *275-276* Material of Screw shafts *steel* Identification Marks on Do. *275-276*

Material of Steam Pipes *repurposed iron* Test pressure *64.5*

Is an installation fitted for burning oil fuel *no* 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 *S.S. "Mantola"*

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

These engines & boilers have been built under special survey, the materials and workmanship are of good description, they have been well fitted on board and tried under steam.

This machinery is now in my opinion eligible to have notification of + LMC 12.17 in the Register Book.

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 12.17. F.D.

JWD.
20/12/17.

The amount of Entry Fee ... £ 3 : : When applied for, *14-12-1917*
Special ... £ 65 : :
Donkey Boiler Fee ... £ : : When received, *2-2-1918*
Travelling Expenses (if any) £ : : *8-2-18*

Committee's Minute GLASGOW. 8 DEC 1917

Assigned + LMC 12.17



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