

# REPORT ON MACHINERY

No. 39499

Received at London Office

Date of writing Report

19

When handed in at Local Office

5-1-20 Port of Glasgow

No. in Survey held at

Glasgow

Date, First Survey

13-11-18

Last Survey

30-12-1919

Reg. Book.

on the

S. S. "Glasford"

(Number of Visits)

5-5

Gross 2579

Net 1428

Master

W. MACINTOSH

Built at

Ardrossan

By whom built

Ardrossan Ship Bldg Co. Ltd.

When built

1919

Engines made at

Glasgow

By whom made

McKie & Baxter

Ings No 931 when made

1919

Boilers made at

Birkenhead

By whom made

Cammell Laird & Co

when made

1919

Registered Horse Power

Owners

Hann, Macneil & Co Ltd.

Port belonging to

Glasgow

Nom. Horse Power as per Section 28

265

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

22" x 36" x 59"

Length of Stroke

39"

Revs. per minute

74

Dia. of Screw shaft

12.45" as per rule 12.48" as fitted 13"

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

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

58"

Dia. of Tunnel shaft

10.7" as per rule 10.85" as fitted 11.74"

Dia. of Crank shaft journals

11.39" as per rule 11.439" as fitted 11.34"

Dia. of Crank pin

11.34"

Size of Crank webs

22 1/2" x 7 1/4"

collars

12"

Dia. of screw

15-9"

Pitch of Screw

15-3"

No. of Blades

4

State whether moveable

No

Total surface

77#

No. of Feed pumps

2

Diameter of ditto

3"

Stroke

24"

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

2

Diameter of ditto

3"

Stroke

24"

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

4

Sizes of Pumps

2-3 1/2"

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

In Engine Room 2-3 1/2" No 3 hold 2 @ 3" No 4 hold 2 @ 3" Tunnel well 1 @ 3"

No. of Bilge Injections

2

sizes

6 1/2"

Connected to circulating pump

C.P.

Is a separate Donkey Suction fitted in Engine room & size

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

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

What pipes are carried through the bunkers

Bilge Suctions

How are they protected

hood 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

Dates of examination of completion of fitting of Sea Connections

22/10/19

of Stern Tube

22/10/19

Screw shaft and Propeller

22/10/19

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

4500

Is Forced Draft fitted

No

No. and Description of Boilers

1 No Single Ended Multitubular

Working Pressure

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

62 sq ft

No. and Description of Safety Valves to

each boiler

2-Sprung loaded

Area of each valve

8.24 sq in

Pressure to which they are adjusted

185 lbs

Are they fitted with easing gear

Smallest distance between boilers or uptakes and bunkers or woodwork

30"

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 manhole in shell

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

Working pressure by rules

End plates in steam space:

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

End plates in steam space:

Material

Thickness

Pitch of stays

How are stays secured

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

Working pressure by rules

Superheater or Steam chest; how connected to boiler

Distance apart

Number and pitch of stays in each

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

How stayed

If stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Working pressure of end plates

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

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Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

