

Rpt. 4.

REPORT ON MACHINERY.

No. 37710.

Received at London Office

WED. 24 APR. 1918

Date of writing Report

When handed in at Local Office

Port of Glasgow

Date, First Survey

13th Aug. 1917

Last Survey

4th April 1918

No. in Survey held at

Glasgow

Reg. Book.

132 on the steel

S.S. "War Stag"

Master

Built at Dundee

By whom built Tom Dorward & Sons (525)

Tons

Gross

52.49

Net

1918

Engines made at

Glasgow

By whom made

D. Rowan & Co. (687)

when made

1918.

Boilers made at

Sunderland

By whom made

William Dorward & Son L^d when made 1918.

Registered Horse Power

Owners

Shipping Controller

Port belonging to

London

Nom. Horse Power as per Section 28

617.

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

27" 44" 73"

Length of Stroke

45"

Revs. per minute

Dia. of Screw shaft

as per rule 14.7

Material of screw shaft

iron

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

Length

If the liner does not fit tightly at the

between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

Yes

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

Length of stern bush

Dia. of Tunnel shaft

as per rule 3.9

Dia. of Crank shaft journals

as per rule 3.9

Dia. of Crank pin

as per rule 3.9

Size of Crank webs

9 thick

Dia. of thrust shaft under

collars

14 3/4"

Dia. of screw

7 1/4"

Pitch of Screw

16 1/2"

No. of Blades

4

State whether moveable

Yes

Total surface

102.5

No. of Feed pumps

2

Diameter of ditto

4"

Stroke

24"

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

2

Diameter of ditto

4"

Stroke

24"

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

3

Sizes of Pumps

1 1/2" x 14" x 24"

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

In Engine Room

In Bilge Suction (1) 3 1/2" - Bilge Suction (4) 3 1/2"

In Holds, &c. For Peak (1) 3 1/2" - N^o 1 hold (2) 3 1/2" - N^o 2 hold (2) 3 1/2"

In Engine Room

In Bilge Suction (1) 3 1/2" - Bilge Suction (4) 3 1/2"

In Holds, &c. For Peak (1) 3 1/2" - N^o 1 hold (2) 3 1/2" - N^o 2 hold (2) 3 1/2"

In Engine Room

In Bilge Suction (1) 3 1/2" - Bilge Suction (4) 3 1/2"

In Holds, &c. For Peak (1) 3 1/2" - N^o 1 hold (2) 3 1/2" - N^o 2 hold (2) 3 1/2"

In Engine Room

In Bilge Suction (1) 3 1/2" - Bilge Suction (4) 3 1/2"

In Holds, &c. For Peak (1) 3 1/2" - N^o 1 hold (2) 3 1/2" - N^o 2 hold (2) 3 1/2"

No. of Bilge Injections

1

sizes

5

Connected to condenser, or to circulating pump

Circulating

Separate Donkey Suction fitted in Engine room & size

Yes 3 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

Yes

Are they Valves or Cocks

Both

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

Yes

Are they Valves or Cocks

Both

Are the Discharge Pipes above or below the deep water line

Both

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

Yes

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

Yes

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

Yes

How are they protected

Under casing and strong

What pipes are carried through the bunkers

Hold Suctions

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

22-4-18

Screw shaft and Propeller

22-4-18

Is the Screw Shaft Tunnel watertight

Yes

Is it fitted with a watertight door

No

Is the Screw Shaft Tunnel watertight

Yes

Is it fitted with a watertight door

No

worked from

Boilers built under B.C. Survey.

Boilers built under B.C. Survey.

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Boilers built under B.C. Survey.

BOILERS, &c.—(Letter for record)

Manufacturers of Steel

Boilers built under B.C. Survey.

Boilers built under B.C. Survey.

Boilers built under B.C. Survey.

Boilers built under B.C. Survey.

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Total Heating Surface of Boilers

7668 1/2

Is Forced Draft fitted

Yes

No. and Description of Boilers

No. of Certificate

No. and Description of Safety Valves to

Are they fitted with easing gear

Material of shell plates

Working Pressure

Tested by hydraulic pressure to

Date of test

Area of fire grate in each boiler

Pressure to which they are adjusted

Mean dia. of boilers

Length

Material of shell plates

Description of riveting: cir. seams

Can each boiler be worked separately

Area of each valve

Pitch of rivets

Lap of plate

Material of shell plates

Description of riveting: cir. seams

Pitch of rivets

Lap of plate

Material of shell plates

Smallest distance between boilers or uptakes and bunkers or woodwork

Range of tensile strength

Are the shell plates welded or flanged

Pitch of rivets

Lap of plate

Material of shell plates

Description of riveting: cir. seams

Pitch of rivets

Lap of plate

Thickness

Range of tensile strength

Are the shell plates welded or flanged

Pitch of rivets

Lap of plate

Material of shell plates

Description of riveting: cir. seams

Pitch of rivets

Lap of plate

long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plate

Material of shell plates

Description of riveting: cir. seams

Pitch of rivets

Lap of plate

Material of shell plates

Per centages of strength of longitudinal joint

Working pressure of shell by rules

Size of main

Outside diameter

Material

No. and Description of Furnaces in each boiler

Length of plain part

Thickness of plates

Description of longitudinal joint

Size of compensating ring

Combustion chamber plates: Material

Thickness: Sides

Back

Pitch of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material of Lower back plate

Thickness

Material of Lower back plate

Thickness

Greatest pitch of stays

Diameter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Pitch across wide water spaces

Working pressures by rules

Girders to

Thickness of girder at centre

Length as per rule

Distance apart

Working pressure by rules

Superheater or Steam chest; how connected to boiler

Diameter

Length

Thickness of shell plates

Material

Diameter of flue

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Working pressure by rules

Superheater or Steam chest; how connected to boiler

Diameter

Length

Thickness of shell plates

Material

Diameter of flue

Pitch of rivets

Working pressure of shell by rules

Working pressure by rules

Superheater or Steam chest; how connected to boiler

Diameter

Length

Thickness of shell plates

Material

Diameter of flue

Pitch of rivets

Working pressure of shell by rules

Working pressure by rules

Superheater or Steam chest; how connected to boiler

