

REPORT ON MACHINERY.

No. 73606

Received at London Office

FRI. OCT. 11 1920

Date of writing Report

19

When handed in at Local Office

19

Port of

NEWCASTLE-ON-TYNE

No. in Survey held at
Reg. Book.

Smith Shields

Date, First Survey

19th Nov 1918

Last Survey

8th Sept

1920

79714 on the

Steel S.S.K.

TOLLY MARIE

(Number of Visits

Tons

Gross

366

Master

Built at Newcastle

By whom built

J.S.D. Morris & Co.

When built

1920

Engines made at

S. Shields

By whom made

Geo. T. Grey & Co. Ltd.

when made

1920

Boilers made at

Newcastle

By whom made

Palmer's S.S. & Iron Co. Ltd. (S.S. 955)

when made

1920

Registered Horse Power

Owners

Walford & Co.

Port belonging to

London

Nom. Horse Power as per Section 28

64

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

No

ENGINES, &c.—Description of Engines

Inverted Compound

No. of Cylinders

2

No. of Cranks

2

Dia. of Cylinders

17" x 34"

Length of Stroke

24"

Revs. per minute

100

Dia. of Screw shaft

as per rule 7.6"

Material of

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

Yes

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

2'-8"

Dia. of Tunnel shaft

as per rule 7.24"

Dia. of Crank shaft journals

as per rule 7.24"

Dia. of Crank pin

7 1/2"

Size of Crank webs

11 x 5

Dia. of thrust shaft under

collars

7 1/2"

Dia. of screw

8'-9"

Pitch of Screw

11'-3"

No. of Blades

4

State whether mopenble

Yes

Total surface

No. of Feed pumps

2

Diameter of ditto

24"

Stroke

13"

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

2

Diameter of ditto

2 3/8"

Stroke

13"

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

One

Sizes of Pumps

5 1/2 x 3 1/2 x 5"

Duplex

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

In Engine Room

2'-2"

In Holds, &c.

Main Hold 2' 2" One of 4'

No. of Bilge Injections

1

size

2 3/4"

Connected to condenser, or to circulating pump

Yes

Is a separate Donkey Suction fitted in Engine room & size

Yes 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

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

Hold suction pipes

How are they protected

wood 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

Is the Screw Shaft Tunnel watertight

Yes

Is it fitted with a watertight door

Yes

worked from

Yes

BOILERS, &c.—(Letter for record

S)

Manufacturers of Steel

Total Heating Surface of Boilers

1180

Is Forced Draft fitted

Yes

No. and Description of Boilers

One Multiple - Cylindrical

Working Pressure

130 lbs.

Tested by hydraulic pressure to

260 lbs.

Date of test

9.7.20

No. of Certificate

9436

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

36 sq

No. and Description of Safety Valves to

each boiler

Two Spring-loaded

Area of each valve

5.9 sq

Pressure to which they are adjusted

132 lbs.

Are they fitted with easing gear

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

22"

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

rivets

plate

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

bottom

Thickness of plates

crown

bottom

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

Are stays 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

If not, state whether, and when, one will be sent?

Is a Report also sent on the Hull of the Ship?

1900-1949-0064

