

Rpt. 4.

REPORT ON MACHINERY.

No. 15781

FR. JUL. 9 1920

Received at London Office

Date of writing Report

19

When handed in at Local Office

7/7/ 1920 Port of

Leith

No. in Survey held at
Reg. Book.

Leith

Date, First Survey

14/10/19

Last Survey

21/6/

1920

(Number of Visits)

on the

2 Jug Dalmore

Tons

Gross

about 70

Net

Master

Built at

Leith

By whom built

Cran Homerville

When built

1920

Engines made at

Leith

By whom made

Cran Homerville Ltd.

when made

1920

Boilers made at

Glasgow

By whom made

A. Anderson & Co.

when made

1920

Registered Horse Power

Owners

Jophan Jones & Co. Ltd.

Port belonging to

Nom. Horse Power as per Section 28

29

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

ENGINES, &c.—Description of Engines

Compound Inverted

No. of Cylinders

2

No. of Cranks

2

Dia. of Cylinders

10-22

Length of Stroke

15"

Revs. per minute

Dia. of Screw shaft

as per rule 4.91

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

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

✓

If two

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

✓

Length of stern bush

27"

Dia. of Tunnel shaft

as per rule 4.5

Dia. of Crank shaft journals

as per rule 4.73

Dia. of Crank pin

as per rule 4.75

Size of Crank webs

3.5x4

Dia. of thrust shaft under

as fitted 4.5

Total surface

10.12f

No. of Feed pumps

2

Diameter of ditto

13/8

Stroke

7 1/2

Can one be overhauled while the other is at work

yes

No. of Bilge pumps

1

Diameter of ditto

17/8

Stroke

7 1/2

Can one be overhauled while the other is at work

-

No. of Donkey Engines

2

Sizes of Pumps

10 1/2 x 3 1/2 + 10 1/2 x 3 1/2

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

No.

In Holds, &c.

one forward 2"

(to be fitted)

No. of Bilge Injections

1

sizes

2"

Connected to condenser, or to circulating pump

yes

Is a separate Donkey Suction fitted in Engine room & size

yes 2"

(to be fitted)

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

Both

(to be fitted)

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

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

OILERS, &c.—(Letter for record)

Manufacturers of Steel

Total Heating Surface of Boilers

615

Is Forced Draft fitted

no

No. and Description of Boilers

Working Pressure

150 lb.

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

rivets

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

Thickness of plates

crown

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

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

009311-009320-0038

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— 2 Connecting rod top and bottom end bolts nuts, 2 main bearing bolts nuts, 1 set of coupling bolts, 1 set of feed valve pump valves, a quantity of assorted bolt nuts, Iron of various sizes - 1 Circulating pump rod thicket - 1 air pump rod thicket - 1 set of air pump metallic valves, 1 full set of piston valves, 1 set of piston packing rings, 1 piston valve, 1 eccentric, 1 white metal liner for thrust shoe, 1 slide valve spindle nuts, a quantity of condenser tubes & ferrules, 2 cyl. escape valve springs, 1 safety valve spring, one screw shaft and propeller supplied.

The foregoing is a correct description,

JOHN CRAN & SOMERVILLE LTD.

J. Anderson

Manufacturer.

Dates of Survey while building

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

1919 Oct 14-22-27 Nov 5-7-10-24-25 Dec 12 Jan 24 Feb 10 Mar 12 June 1-16-21.

Is the approved plan of main boiler forwarded herewith

yes

Dates of Examination of principal parts—Cylinders

20/10/19

Slides

12/12/19

Covers

12/12/19

Pistons

12/12/19

Rods

12/12/19

Connecting rods

12/12/19

Crank shaft

7/11/19

Thrust shaft

7/11/19

Tunnel shafts

7/11/19

Screw shafts

14/11/19

Propellers

2/3/20

Stern tube

10/2/20

Steam pipes tested

Engine and boiler seatings

Engines holding down bolts

Completion of pumping arrangements

Boilers fixed

Engines tried under steam

Completion of fitting sea connections

Stern tube

Screw shaft and propeller

Main boiler safety valves adjusted

Thickness of adjusting washers

Material of Crank shaft

5015 JRN

Identification Mark on Do.

5015 JRN

Material of Thrust shaft

5015 JRN

Identification Mark on Do.

5015 JRN

Material of Tunnel shafts

5015 JRN

Identification Marks on Do.

5015 JRN

Material of Screw shafts

5015 JRN

Identification Marks on Do.

5015 JRN

Material of Steam Pipes

Test pressure

Is an installation fitted for burning oil fuel

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

no

If so, state name of vessel

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

These engines have been built under special survey and the materials and workmanship are good. They have been shipped together with Boiler No. 2802 built by Messrs Anderson & Sons, of Glasgow (See report No. 40,050 enclosed) to Singapore where they will be fitted on board the vessel after it has been assembled.

When the engines and boiler have been installed, I am of opinion that record of + SMC with date may be assigned.

The amount of Entry Fee

£ 74

Special

£ 10

Donkey Boiler Fee

£

Travelling Expenses (if any)

£

When applied for,

When received,

22/10/19

Onpart etc.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. APR. 19 1921

Assigned



© 2020

Lloyd's Register Foundation