

Rpt. 4.

REPORT ON MACHINERY.

No. 10659.

Date of writing Report

7th Aug 1920

When handed in at Local Office

10th Aug 1920

Port of

Received at London Office

WED. AUG. 11 1920

No. in Survey held at

Southampton

Date, First Survey

13th Aug 1919

Last Survey

5th Aug 1920

Reg. Book.

on the

Engines cl. 366.

(Number of Visits 12)

Master

Built at

By whom built

Tons

Gross

Net

When built

Engines made at

Southampton

By whom made

Messrs. Day, Summers & Co. Ltd

when made

1920

Boilers made at

By whom made

when made

Registered Horse Power

Owners

Port belonging to

Nom. Horse Power as per Section 28

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

ENGINES, &c.—Description of Engines

Triple Expansion, Surface Condensing

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

13¹/₄"-22"-37"

Length of Stroke

17"

Revs. per minute

✓

Dia. of Screw shaft

as per rule

Material of

screw shaft

✓

Is the screw shaft fitted with a continuous liner the whole length of the stern tube

✓

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

as per rule

Dia. of Crank shaft journals

as per rule

7¹/₄"

Dia. of Crank pin

7¹/₄"

Size of Crank webs

5"

Dia. of thrust shaft under

collars

Dia. of screw

Pitch of Screw

✓

No. of Blades

✓

State whether moveable

✓

Total surface

✓

No. of Feed pumps

2

Diameter of ditto

2³/₄"

Stroke

12"

Can one be overhauled while the other is at work

yes

No. of Bilge pumps

2

Diameter of ditto

2³/₄"

Stroke

12"

Can one be overhauled while the other is at work

yes

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

sizes

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room & size

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

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

BOILERS, &c.—(Letter for record

Manufacturers of Steel

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

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

UPERHEATER. 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

002442-002448-0201

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

2 Connecting Rod bolts & nuts, 2 Piston Rod bolts & nuts, 2 Main
Bearing bolts & nuts, 1 set of feed pump valves, 1 set of Bilge pump valves.

The foregoing is a correct description,
For DAY SUMMERS & Co. Ltd.

Graham C. L. Jay.

Manufacturer.

Dates of Survey while building
During progress of work in shops -- 1919. 13-24, 10-18-25, 3-16-17, 23, 12, 1920. 1, 3.
During erection on board vessel --
Total No. of visits 11

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders 17-10-19 Slides 17-10-19 Covers 17-10-19 Pistons 17-10-19 Rods 23-12-19
Connecting rods 23-12-19 Crank shaft 17-10-19 Thrust shaft Tunnel shafts Screw shaft Propeller

Stern tube 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 Identification Mark on Do. 366 17-10-19 Material of Thrust shaft Identification Mark on Do.

Material of Tunnel shafts Identification Marks on Do. 3.M. Material of Screw shafts Identification Marks on Do.

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? yes If so, state name of vessel Engines No. 365.

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

The Engines have been built under special survey.
The materials & workmanship are sound and good.
The Engines have been sent to Goolle.

Certificate (if required) to be sent to
The Surveyors are requested not to write on or below the space for Committee's Minute.

The amount of Entry Fee ... £ : : When applied for,
Special ... £ 8 : 0 25. Mar. 1920
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ : : 27. Mar. 1920

Committee's Minute

FRI. 28 FEB 1930

Assigned

See Serial 36 40621

For J. Marshall & Self
A. H. Boyle

Engineer Surveyor to Lloyd's Register of Shipping.

TUE. 4 MAR 1930

TUE. 11 MAR 1930

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Lloyd's Register
Foundation