

REPORT ON MACHINERY.

No. 82585

SAT. 20 AUG. 1921

Received at London Office

19 AUG 1921

Port of LIVERPOOL

of writing Report When handed in at Local Office

in Survey held at

Date, First Survey

Last Survey

1921

Book

ster

Built at

By whom built

Tons

When built

ines made at

By whom made

when made

ilers made at

By whom made

when made

gistered Horse Power

Owners

Port belonging to

m. Horse Power as per Section 28

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

GINES, &c.—Description of Engine

No. of Cylinders

No. of Cranks

of Cylinders

Length of Stroke

Revs. per minute

Dia. of Screw shaft

as per rule

Material of

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

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

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

If two

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

Length of stern-bush

of Tunnel shaft

Dia. of Crank shaft journals

as per rule

Dia. of Crank pin

Size of Crank webs

Dia. of thrust shaft under

of Feed pumps

Pitch of Screw

No. of Blades

State whether moveable

Total surface

of Bilge pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

of Donkey Engines

Sizes of Pumps

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

Engine Room

In Holds, &c.

of Bilge Injections

Connected to condenser or to circulating pump

Is a separate Donkey Suction fitted in Engine room & size

all the bilge suction pipes fitted with roses

Are the roses in Engine room always accessible

Are the stiches on Engine room bulkheads always accessible

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

hat pipes are carried through the bunkers

How are they protected

all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

ILERS, &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

in 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

Fig. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Length of plates width of butt straps

per centages of strength of longitudinal joint

Working pressure of shell by rules

Size of manhole in shell

ze of compensating ring

No. and Description of Furnaces in each boiler

Material

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

Bottom

thick of stays to ditto

Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

End plates in steam space

aterial of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

Material of stays

aterial

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of Front plates at bottom

at smallest part

Area supported by each stay

Working pressure by rules

Material of

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

itch across wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

ickness of girder at centre

Length as per rule

Distance apart

Number and pitch of stays in each

% of strength of joint

Working pressure by rules

Steam dome: description of joint to shell

Diam. of rivet holes

diameter

Thickness of shell plates

Material

Description of longitudinal joint

How stayed

thick of rivets

Working pressure of shell by rules

Crown plates

Thickness

PERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

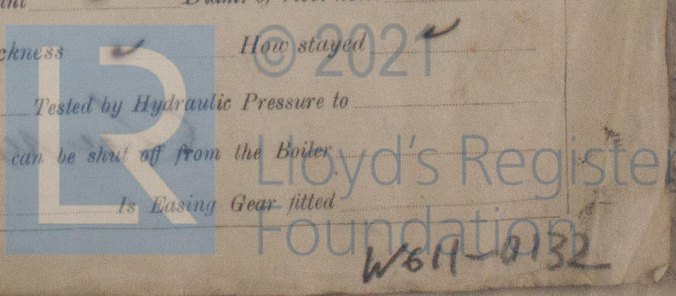
ite of Test

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



IS A DONKEY BOILER FITTED?

Any boiler fitted
No, but

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building
During progress of work in shops
During erection on board vessel
Total No. of visits

1921. Feb 16, 18, 21, 23, 25, 27, 29, 15, 21, May 11, June 7, 17, 23, 28, July 5, 6.

Is the approved plan of main boiler forwarded herewith?

Dates of Examination of principal parts—Cylinders Slides Covers Pistons Rods

Connecting rods Crank shaft 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. Material of Thrust shaft Identification Mark on Do.

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

Material of Steam Pipes Test pressure

Is an installation fitted for burning oil fuel? No 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? If so, state name of vessel

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

The foll. pumps are fitted aboard in addition to the feed & bilge pumps above
enumerated— Two Hand Sanitary pumps 11 1/2" dia x 10" stroke; Three Duplex
Ballast pumps 11 1/2" dia x 11" pump x 11 1/2" stroke; Two Duplex bilge pumps 11" x 7 1/2" x 13 1/4"
Two Duplex Sanitary pumps 11" x 7 1/2" x 13 1/4"; Two Hand bilge pumps 7" x 6" x 6"
Two Ash Yeelt pumps 14" x 9 1/2" x 12 3/4"; One Transferring pump 11" x 7 1/2" x 13 1/4"

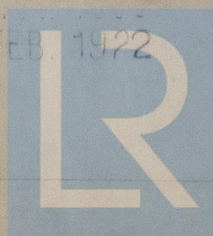
The Machinery of this vessel is in efficient condition, and
when Survey has been completed (as per attached Report and
bill) my opinion be eligible for record of L.R.C. / will do

The amount of Entry Fee ... £ : :
Special ... £ : :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for
When received

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute LIVERPOOL 19 AUG 1921 FRI 24 FEB 1922

Assigned See report attached.



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Lloyd's Register
Foundation