

REC'D NEW YORK FEB 17 1921

See SFO 1st & Rpt. No. 3552.

REPORT ON MACHINERY.

No. 147

Received at London Office

WED 16 JUL 1921

of writing Report

Feb 1st 1921

When handed in at Local Office

Feb 1st 1921

Port of

Cleveland Ohio

Date, First Survey

Dec 6th

Last Survey

Jan 25th 1921

Book.

on the ENG. No 4955. HULL No 15.

Built at

Oakland Cal

By whom built

Union Construction Coy

Tons

Gross

Net

When built

1921

Names made at

Hamilton Ohio

By whom made

Hoover Owens & Rentscheler Co

when made

1921

ers made at

By whom made

when made

Registered Horse Power

Owners

Port belonging to

Horse Power as per Section 28

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

INES, &c.—Description of Engines

Triple expansion vertical

No. of Cylinders

3

No. of Cranks

3

of Cylinders

27"-45"-74"

Length of Stroke

48"

Revs. per minute

80

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

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

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

Length of stern bush

of Tunnel shaft

as per rule

Dia. of Crank shaft journals

as per rule

14"

Dia. of Crank pin

14 1/2"

Size of Crank webs

27 1/2" x 29 1/2"

Dia. of thrust shaft under

ded herewith

7 1/2"

Dia. of screw

Pitch of Screw

No. of Blades

State whether moveable

Total surface

No. of Feed pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

Rods of Bilge pumps

Diameter of ditto

Stroke

26"

Can one be overhauled while the other is at work

Yes

5" Propeller 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

sizes

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 sluices on Engine room bulkheads always accessible

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

Are they Valves or Cocks

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

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

at 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

TERS, &c.—(Letter for record

) Manufacturers of Steel

al Heating Surface of Boilers

Is Forced Draft fitted

No. and Description of Boilers

orking Pressure

180 lbs.

Tested by hydraulic pressure to

Date of test

No. of Certificate

each boiler be worked separately

Area of fire grate in each boiler

No. and Description of Safety Valves to

boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

all distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

Length

Material of shell plates

and good thickness

Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

centages of strength of longitudinal joint

Working pressure of shell by rules

Size of manhole in shell

of compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

length of plain part

top

Thickness of plates

bottom

Description of longitudinal joint

No. of strengthening rings

orking pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

ch 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

ea at smallest part

Area supported by each stay

Working pressure by rules

Working pressure of plate by rules

ickness

Material of Lower back plate

Thickness

Greatest pitch of stays

Back

Mean pitch of stays

meter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

ch 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

orking pressure by rules

Steam dome: description of joint to shell

% of strength of joint

meter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

ch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

PERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

te of Test

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

meter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

WS43-0111

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— Two top end bushes with bolts & nuts. Two bottom end bushes with bolts & nuts. Two main bearing bolts & nuts. Six coupling bolts & nuts. Set of valves for air, & bilge pumps. Set of springs & rings for HP, IP & LP pistons. Valve stem, link block brace & eccentric strap, complete. Air pump rod & bilge pump plunger. Guide shoe. $\frac{1}{3}$ Length of crank shaft. Follower studs & nuts, for power & stuffing boxes.

Hoover & Co. Pittsburgh, Pa. by *Wm. H. H. H. H.* Manufacturer.

1920 Dec 6. 7. 18 1921 Jan 3 4 16 17. 25

Is the approved plan of main boiler forwarded herewith

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

If so, state name of vessel

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

The above Engines were built under Special Survey. The materials & workmanship employed in their construction, so far as can be seen are sound & efficient. When they have been satisfactorily installed in the vessel, proved satisfactory in working conditions & spare gear supplied as required by the Rules; this vessel will be eligible in my opinion to have Record of *L.M.C (with date)

Certificate (if required) to be sent to

The amount of Entry Fee ...	\$ 550.00	:	When applied for,
Special ...	\$:	19...
Donkey Boiler Fee ...	\$:	When received,
Travelling Expenses (if any) ...	\$ 139.15	:	19...

G. Drummond.

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

New York JUN 21 1921

FRI. AUG. 26 1921

FRI. SEP. * 8 1922

Assigned

See S. 70.3552

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Foundation