

Rpt. 4.

REPORT ON MACHINERY.

No. 142

Received at London Office TUE 22 MAR. 1921

Date of writing Report 10/11/20 When handed in at Local Office 10/11/20

Port of Cleveland Ohio.

No. in Survey held at Hamilton Ohio.

Date, First Survey Aug 25

Last Survey Oct. 26 1920

Reg. Book.

on the ENG. N° 4826 S/N° 18.

(Number of Visits)

Master

Built at Vancouver, Wash. By whom built G. M. Standiford Const. Coy.

Tons } Gross
Net
When built

Engines made at Hamilton Ohio

By whom made Hoover, Orin & Hentscheler Coy.

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 *Leakproof Expansion*

No. of Cylinders 4

No. of Cranks 4

Dia. of Cylinders 24", 35", 51", 75"

Length of Stroke 51"

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

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 13.48

Dia. of Crank shaft journals as per rule 14.15

as fitted 14.25

Dia. of Crank pin 14.75

Size of Crank webs 14.30" x 27/4"

Dia. of thrust shaft under

collars 14.25

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

No. of Bilge pumps 2

Diameter of ditto 3 1/2"

Stroke 24"

Can one be overhauled while the other is at work 40.

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

OILERS, &c.—(Letter for record) Manufacturers of Steel

Total Heating Surface of Boilers

Is Forced Draft fitted

No. and Description of Boilers

Working Pressure 220 lbs.

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

Pitch of rivets

Pitch of rivets

Lap of plates or width of butt straps

Percentage 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

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?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

Two top end bolts & nuts. Two bottom end bolts & nuts. Two main bearing bolts & nuts. Set of Coupling bolts & nuts. Set of piston springs & rings for H.P., I.P., 2nd I.P., & L.P. pistons. Set of valves for Air & Bilge pumps. Pair of crosshead bushes. The crank pin bearing. H.P., I.P., & L.P. valve stems, & eccentric straps. Air pump link, for engine & air pump end. Cylinder cover & packing glands studs. Sectional crank shaft.

The foregoing is a correct description,
for Engines only.

Hosmer Owen, Lentschly Co. Manufacturer.

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

1920 Aug. 25 Sept. 3, 21. Oct. 5, 15, 26.

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders 25/8/20 Slides 15/10/20 Covers 15/10/20 Pistons 24/10/20 Rods 28/10/20
Connecting rods 3/9/20 Crank shaft 5/10/20 Thrust shaft 3/9/20 Tunnel shafts
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 Steel Identification Mark on Do. 47-75
Material of Tunnel shafts Identification Marks on Do. 18/6/20
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

If so, state name of vessel

Is this machinery duplicate of a previous case

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

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

Certificate (if required) to be sent to

The amount of Entry Fee ...
Special ...
Donkey Boiler Fee ...
Travelling Expenses (if any) ...

When applied for,

Included in ...
When received, ...

G. Drummond

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute New York MAR - 8 1921

Assigned

See P. O. Rpt. No. 620



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