

REPORT ON MACHINERY

No. 13817

REC'D NEW YORK

August 23 1917

Received at London Office

SEP 17 1917

of writing Report

1917

When handed in at Local Office

Port of New York

Survey held at

Bayonne N.J.

Date, First Survey

Last Survey

19

on the

Master

Built at San Francisco

By whom built

W. Moore & Son Iron Works

Tons Gross Net

Engines made at

By whom made

when made

Wheels made at

Bayonne

By whom made

Babcock & Wilcox

when made

Registered Horse Power

Owners

Port belonging to

Net Horse Power as per Section 28

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

ENGINES, &c.—Description of Engines

No. of Cylinders

No. of Cranks

No. 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

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

Dia. of Crank pin

Size of Crank webs

Dia. of thrust shaft under

liners

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

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Donkey Engines

Sizes of Pumps

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

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

VALVES, &c.—(Letter for record

Manufacturers of Steel

W. Moore & Son C^o, Coatesville, Pa.

Total Heating Surface of Boilers

8439 sq. ft.

Is Forced Draft fitted

No. and Description of Boilers

3 Water Tube

Working Pressure

225 lbs.

Tested by hydraulic pressure to

500 lbs.

Date of test

No. of Certificate

Can each boiler be worked separately

Furnace volume

2000 cu. ft.

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

9/16

Range of tensile strength

60000 lbs.

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

S. R. L. A. P.

seams

S. R. D. B. S.

Diameter of rivet holes in long. seams

29/32

Pitch of rivets

2 7/32

width of butt straps

1 1/2 inches

Percentages of strength of longitudinal joint

rivets

102%

Working pressure of shell by rules

225 lbs.

Size of manhole in shell

15" x 11"

Is of compensating ring

Flange ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

Length of plain part

top

bottom

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

Thickness 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

Steel

Thickness

9/16

Pitch of stays

How are stays secured

Disks

Working pressure by rules

225 lbs.

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

Thickness 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

Thickness of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER. Type

Tube type

Date of Approval of Plan

Tested by Hydraulic Pressure to

500 lbs. per sq. in.

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

Pressure of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

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W1452-0032

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

The Baffoch & Wilcox Co.

J. Henger Marine Dept Manufacturer.

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

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 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.)

These Boilers have been tried under Special Survey and in accordance with the approved plans. The workmanship and materials are both of good quality. The Boilers have been erected in the works, drums, elements and Super heaters have been tested to 50 lbs per sq in & found tight & sound. They have now been dismantled for shipment. To complete the survey the boilers to be re-erected in place & tested by hydraulic pressure. The mountings to be examined & fitted & all safety valves to be adjusted under steam.

The forwarded to the Surveyors

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

J. Hudson

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute New York AUG 28 1917

Assigned

See other report



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