

pt. 4.

REPORT ON MACHINERY.

No.

Rpt.

ts.

valves.

ster P. Svendsen

gines made at

ilers made at

gistered Horse Power

m. Horse Power as per Section 28

GINES, &c.—Description of Engines

a. of Cylinders

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

the propeller boss

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

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

ia. of Tunnel shaft

llars

o. of Feed pumps

o. of Bilge pumps

o. of Donkey Engines

Engine Room

o. of Bilge Injections

re all the bilge suction pipes fitted with roses

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

re they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

re they each fitted with a Discharge Valve always accessible on the plating of the vessel

That pipes are carried through the bunkers

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

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

s the Screw Shaft Tunnel watertight

ILERS, &c.—(Letter for record

Total Heating Surface of Boilers

orking Pressure

Can each boiler be worked separately

ach boiler

Smallest distance between boilers or uptakes and bunkers or woodwork

Thickness

long. seams

Per centages of strength of longitudinal joint

Size of compensating ring

Length of plain part

Working pressure of furnace by the rules

Pitch of stays to ditto

Material of stays

Material

Area at smallest part

Thickness

Diameter of tubes

Pitch across wide water spaces

thickness of girder at centre

Working pressure by rules

Diameter

Pitch of rivets

UPERHEATER. Type

Date of Test

iameter of Safety Valve

REPORT ON MACHINERY.

No.

NEW YORK

April 24 1917

Received at London Office

MAY 1 1917

19

When handed in at Local Office

10

Port of

SEATTLE,

Date, First Survey

Last Survey

19

(Number of Visits)

Tons

Gross 3911

Net 2490

When built 1917

Built at Alameda, Cal.

By whom built Union Iron Works Co.

when made 1917

when made 1916

Owners A.O. Lindvig.

Port belonging to Christiania.

Is Refrigerating Machinery fitted for cargo purposes no.

Is Electric Light fitted yes

No. of Cylinders

No. of Cranks

as per rule

Material of

as fitted

screw shaft

Is the after end of the liner made water tight

If the liner does not fit tightly at the part

If the liner is in more than one length are the joints burned

Length of stern bush

Dia. of Crank pin

Size of Crank webs

Dia. of thrust shaft under

State whether moveable

Can one be overhauled while the other is at work

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

In Holds, &c.

Is a separate Donkey Suction fitted in Engine room & size

Are the roses in Engine room always accessible

Are the sluices on Engine room bulkheads always accessible

Are they Valves or Cocks

Are the Discharge Pipes above or below the deep water line

Are the Blow Off Cocks fitted with a spigot and brass covering plate

How are they protected

worked from

Is it fitted with a watertight door

Manufacturers of Steel Worth Bros. Co., Coatesville, Pa.

No. and Description of Boilers Two Scotch Marine

No. of Certificate 25

Area of fire grate in each boiler

No. and Description of Safety Valves to

Are they fitted with easing gear

Material of shell plates Steel

Descrip. of riveting: cir. seams Double-Lap.

Pitch of rivets 9 1/4"

Size of manhole in shell 11" x 15"

Material Steel Outside diameter 52 1/4"

No. of strengthening rings

Material Steel Thickness: Sides 1/16"

Working pressure by rules 189

Working pressure by rules 206

Material of stays Steel

Working pressure by rules 228

Working pressure of plate by rules 228

Material of tube plates Steel Thickness: Front 1/16"

Mean pitch of stays 10"

Girders to Chamber tops: Material Steel

Number and pitch of stays in each 3 - 8"

% of strength of joint

Description of longitudinal joint

Diam. of rivet holes

How stayed

Tested by Hydraulic Pressure to

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

Is Easing Gear fitted

W1157-0191

Lloyd's Register Foundation

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Commercial Boiler Works

R. H. J. J. J.

BOILER Manufacturer.

Dates of Survey while building { During progress of work in shops -- } Oct. 18th to Nov. 11th 1916 (Oct 18-23-26-28 Nov. 1-4-7-11) 8 Visits
{ During erection on board vessel -- }
{ Total No. of visits }
Is the approved plan of main boiler forwarded herewith Yes
" " " donkey " " "

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 constructed under special survey in accordance with the approved plan, the material and workmanship are both of good quality, and on completion were tested by hydraulic pressure to 270 lbs and found tight and sound. The boilers have been forwarded to San Francisco for installing on the United Engineering Works vessel yard N-16. To complete the survey the boilers to be installed and secured in the vessel, all mountings to be examined and fitted and the safety valves adjusted under steam at 180 lbs working pressure.

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 ... £	:	:	19
Donkey Boiler Fee ... £	:	:	When received,
Travelling Expenses (if any) £	:	:	19

Committee's Minute New York APR 26 1917

Assigned See other report

Engineer Surveyor to Lloyd's Register of Shipping.

James Fowler. Seattle



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