

REPORT ON MACHINERY.

REC'D NEW YORK April 24 1917

Received at London Office

MON 1 MAY 1917

Date of writing Report

19

When handed in at Local Office

10

Port of

SEATTLE,

Date, in Survey held at

Date, First Survey

Last Survey

19

on the s/s "REGULUS" (MAIN BOILERS)

(Number of Visits)

Tons } Gross 3911
Net 2490
When built 1917

Master P. Svendsen Built at Alameda, Cal. By whom built Union Iron Works Co.

Engines made at Alameda, Cal. By whom made Union Iron Works Co. when made 1917

Boilers made at Seattle, Wash. U.S.A. By whom made Commercial Boiler Works when made 1916

Registered Horse Power Owners A.O. Lindvig. Port belonging to Christiania.

Net Horse Power as per Section 28 234 Is Refrigerating Machinery fitted for cargo purposes no. Is Electric Light fitted yes

ENGINES, &c.—Description of Engines

No. of Cylinders

No. of Cranks

a. of Cylinders Length of Stroke Revs. per minute Dia. of Screw shaft as per rule as fitted Material of screw shaft Is the after end of the liner made water tight

the screw shaft fitted with a continuous liner the whole length of the stern tube 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 as fitted Dia. of Crank shaft journals as per rule as fitted Dia. of Crank pin Size of Crank webs Dia. of thrust shaft under

plates 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

BOILERS, &c.—(Letter for record ^{NEW YORK FEB. 23 1916} Manufacturers of Steel Worth Bros. Co., Coatesville, Pa. 2513

Total Heating Surface of Boilers 5400 sq. ft. Is Forced Draft fitted No. and Description of Boilers Two Scotch Marine

Working Pressure 180 lbs. sq. Tested by hydraulic pressure to 270 lbs. sq. Date of test November 11, 1916 No. of Certificate 25

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 15'-10 3/8" Length 10'-6" Material of shell plates Steel

Thickness 1 3/8" Range of tensile strength 28 to 32 tons Are the shell plates welded or flanged no. Descrip. of riveting: cir. seams Double-Lap.

long. seams Triple-Butt. Diameter of rivet holes in long. seams 1 7/16" Pitch of rivets 9 1/4" Top of plates or width of butt straps 20 3/4"

Per centages of strength of longitudinal joint rivets 94.8 Working pressure of shell by rules 195 Size of manhole in shell 11" x 15"

Size of compensating ring 28" x 32" x 1 3/8" No. and Description of Furnaces in each boiler 3-Morison Material Steel Outside diameter 52 1/4"

Length of plain part top bottom Thickness of plates crown bottom 5 8 Description of longitudinal joint welded No. of strengthening rings

Working pressure of furnace by the rules 190.8 Combustion chamber plates: Material Steel Thickness: Sides 1/16" Back 1/16" Top 1/16" Bottom 7/8"

Pitch of stays to ditto: Sides 8" x 8" Back 8" x 8" Top 8" x 9" If stays are fitted with nuts or riveted heads Sides Back Riveted Working pressure by rules 189

Material of stays Wrought Iron Area at smallest part 1.76 sq. Area supported by each stay 64 sq. Working pressure by rules 206 End plates in steam space:

Material Steel Thickness 1 5/32" Pitch of stays 15" x 18" How are stays secured Double Nuts Working pressure by rules 218 Material of stays Steel

Area at smallest part 5.93 sq. Area supported by each stay 270 sq. Working pressure by rules 228 Material of Front plates at bottom Steel

Thickness 1 3/16" Material of Lower back plate Steel Thickness 1 1/16" + 5/8" Double Greatest pitch of stays 14" Working pressure of plate by rules 228

Diameter of tubes 3" Pitch of tubes 4" x 4" Material of tube plates Steel Thickness: Front 13/16" Back 13/16" Mean pitch of stays 10"

Pitch across wide water spaces 13 3/8" Working pressures by rules 226 Girders to Chamber tops: Material Steel Depth and

thickness of girder at centre 10" x 1 1/2" Length as per rule 32" Distance apart 9" Number and pitch of stays in each 3-8"

Working pressure by rules 231 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

Date 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

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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

J. H. Jof

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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