

## REPORT ON MACHINERY.

No. 14606

REC'D NEW YORK

Jan. 25 1918

Received at London Office

Date of writing Report

19

When handed in at Local Office

19

Port of

NEW YORK N.Y.

in - Survey held at

SCHENECTADY N.Y.

Date, First Survey

Last Survey

19

g. Book.

on the

S/S Westlake

(Number of Visits)

Tons

Gross

Net

Master

Built at

By whom built

When built

Engines made at

SCHENECTADY N.Y.

By whom made

GENERAL ELECTRIC CO.

when made 1918.

Boilers made at

By whom made

when made

Registered Horse Power

Owners

Port belonging to

Shaft Horse Power at Full Power

2500

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

TURBINE ENGINES, &amp;c.—Description of Engines

GEARED TURBINE (TURBINE. 12466 GEAR. 2572)

No. of Turbines ONE

Diameter of Rotor Shaft Journals, H.P.

8"

L.P.

Diameter of Pinion Shaft

7"

Diameter of Journals

H.S. PINION 7.833"

Distance between Centres of Bearings

H.S. PINION 25"

Diameter of Pitch Circle

H.S. PINION 7.833"

Diameter of Wheel Shaft

14"

Distance between Centres of Bearings

L.S. PINION 5.42"

Diameter of Pitch Circle of Wheel

L.S. PINION 10.75"

Width of Face

14.35"

Diameter of Thrust Shaft under Collars

Diameter of Tunnel Shaft

as per rule

No. of Screw Shafts

Diameter of same

as per rule  
as fitted

Diameter of Propeller

Pitch of Propeller

No. of Blades

State whether Moveable

Total Surface

Diameter of Rotor Drum, H.P.

L.P.

astern

Thickness at Bottom of Groove, H.P.

L.P.

Astern

Revs. per Minute at Full Power, Turbine

2374.5

Propeller

90.

## PARTICULARS OF BLADING.

		ACTIVE			H.P. PITCH			L.P.			ACTIVE			ASTERN.		
		HEIGHT OF BLADES.			DIAMETER AT TIP.			HEIGHT OF BLADES.			HEIGHT OF BLADES.			DIAMETER AT TIP.		
T	EXPANSION	75	-	1.25	2	-	11 1/2	2			8.25	-	1.5	2	-	3
D	"	6.25			3		9	1			3.35			2		3
D	"	1.25			3		10 1/2	1								
H	"	2.5			4		0	1								
H	"	6			4		2	1								
H	"															
H	"															
H	"															

No. and size of Feed pumps

No. and size of Bilge pumps

No. and size of Bilge suction in Engine Room

In Holds, &amp;c.

No. of Bilge Injections

sizes

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine Room &amp; size

Are all the bilge suction pipes fitted with roses

Are the roses in Engine room 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

Are all pipes 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, &amp;c.—(Letter for record) Manufacturers of Steel

Total Heating Surface of Boilers

Is Forced Draft fitted

No. and Description of Boilers

Working Pressure

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

7. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

Percentages of strength of longitudinal joint

rivets

Working pressure of shell by rules

Size of manhole in shell

No. 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

Diameter 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

Diameter 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

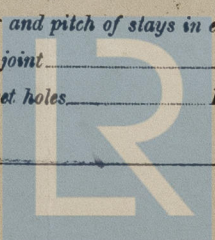
Diameter of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates: Thickness

How stayed



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SUPERHEATER. Tg. 10 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

IS A DONKEY BOILER FITTED? If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,  
General Electric Co. Manufacturer.  
per S. A. Berg.

Dates of Survey while building During progress of work in shops -- Nov. 2, 3, 14, 24, 6, 13, 14, 18, 19, 21.  
During erection on board vessel ---  
Total No. of visits Is the approved plan of main boiler forwarded herewith  
" " " donkey " " "

Dates of Examination of principal parts—Casings Rotors Blading Gearing  
Rotor 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  
Main boiler safety valves adjusted Thickness of adjusting washers  
Material and tensile strength of Rotor shaft STEEL 80,000 LBS 7" MINIMUM Identification Mark on Do. T.G.D.  
Material and tensile strength of Pinion shaft " 100,000 " " " Identification Mark on Do. T.G.D.  
Material of Wheel shaft STEEL Identification Mark on Do. T.G.D. 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 a duplicate of a previous case If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c. These engines have been constructed under special survey in accordance with the approved plans. The materials and workmanship are sound and good. The engines have been forwarded to Portland Ct. to be fitted on board.

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

H. H. Dodd  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute New York MAY 14 1918  
Assigned See Sea Ayl 581

Rpt. 13.

RE  
Port of  
No. in on the  
Reg. Book  
1ST ENTRY Built  
Owners U.S.S.  
Yard No. 16

DESCRIPTION  
Two 15 KW-  
Cylinders 2  
Capacity of Dyn  
Where is Dynam  
Position of Main  
Positions of au

Passage of  
in passage  
If fuses are fit

circuits  
If vessel is wir

Are the fuses

Are all fuses f

are perman

Are all switches

Total number of

A 37

B 33

C 65

D 27

E 19

1 Mast

2

28

If are lights, w

Where are the

DESCRIPTION

Main cable carr

Branch cables

Branch cables

Leads to lamps

Cargo light cabl

DESCRIPTION

Joints in cables

Are all the join

positions,

Are there any

How are the c