

## REPORT ON MACHINERY.

NY No. 14122

REC'D NEW YORK

March 21-1918

Received at London Office

Date of writing Report Aug 11-1917 When handed in at Local Office

Port of NEW YORK N.Y.

No. in Survey held at SCHENECTADY N.Y.

Date, First Survey May 23<sup>rd</sup> Last Survey 19

Reg. Book.

on the UNION IRON N<sup>o</sup> 145 144

(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 1914

Boilers made at By whom made when made

Registered Horse Power Owners Port belonging to

Shaft Horse Power at Full Power 2600 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

TURBINE ENGINES, &amp;c.—Description of Engines GEARED TURBINE (TURBINE 12404 GEAR 2539) 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 4" H.S. GEAR 10" Distance between Centres of Bearings H.S. PINION 25" H.S. GEAR 38" Diameter of Pitch Circle H.S. PINION 10.75" H.S. GEAR 54.75"

Diameter of Wheel Shaft 14" Distance between Centres of Bearings L.S. PINION 54 1/2" Diameter of Pitch Circle of Wheel L.S. PINION 10.75" L.S. GEAR 54.75"

Width of Face 14.35" Diameter of Thrust Shaft under Collars Diameter of Tunnel Shaft as per rule as fitted

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 5374.5 Propeller 90.

## PARTICULARS OF BLADING.

	ACTIVE. HEIGHT OF BLADES.	H.P. PITCH. DIAMETER AT TIP.	NO. OF ROWS.		L.P. HEIGHT OF BLADES.	PITCH. DIAMETER AT TIP.	NO. OF ROWS.		ACTIVE HEIGHT OF BLADES.	ASTERN. PITCH. DIAMETER AT TIP.	NO. OF ROWS.
ST EXPANSION	75-1.25	2'-11 1/2"	2						8125-1.5	3'-3"	2
ID "	625	3'-9"	1						3.3 1/3	3'-3"	1
RD "	1.25	3'-10 1/2"	1								
TH "	2.5	4'-0"	1								
TH "	6	4'-2"	1								
TH "											
TH "											
TH "											

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

That 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, &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

Long. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

Per centages of strength of longitudinal joint Working pressure of shell by rules Size of manhole in shell

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



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 \_\_\_\_\_

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

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

*E. J. Dickman* Manufacturer.  
*for General Electric Co*

Dates of Survey while building { During progress of work in shops - - May 23-31  
{ During erection on board vessel - - Jun. 8, 1930  
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. 17" MIN.

Identification Mark on Do. T.G.D.

Material and tensile strength of Pinion shaft \_\_\_\_\_

" 100,000 LBS. 17" MIN.

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. These engines have been forwarded to San Francisco Cal. to be fitted on board.*

The amount of Entry Fee ... £

Special ... £

Donkey Boiler Fee ... £

Travelling Expenses (if any) £

N.Y. \$11.50  
100

When applied for

19

When received

19

*H. J. Bond*

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute New York MAR 26 1918

Assigned

*See other report*

Rpt. 13.

Port of 34

No. in on t  
Reg. Book Bu

Owners ATLAS

Yard No. 1

DESCRIPTION

2-20-K

ENGINE

Capacity of 1 Dyn

Where is Dyna

Position of Ma

Positions of au

ENGINE

If fuses are fu

circuits

If vessel is win

Are the fuses

Are all fuses j

are perma

Are all switche

Total number o

A 36

B 72

C 107

D 56

E 1 SEAR

1 Mast

2

3

If arc lights, u

Where are the

DESCRIPTION

Main cable car

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 co



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Foundation