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# REPORT ON MACHINERY.

No. 13418

23 JAN. 1917

REC'D NEW YORK Jan 17 1917

Received at London Office

of writing Report Dec. 28<sup>th</sup> 1916 When handed in at Local Office Dec. 28<sup>th</sup> 1916 Port of New York

in Survey held at Schenectady Date, First Survey May 16<sup>th</sup> Last Survey Dec. 11<sup>th</sup> 1916

on the Union Iron Works No. 129 (Number of Visits 5)

Built at Schenectady By whom built Union Iron Works When built

Motors made at Schenectady By whom made General Electric Company when made 1916

Registered Horse Power Owners Port belonging to

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

TURBINE ENGINES, &c.—Description of Engines Geared Turbines No. of Turbines 2

Diameter of Rotor Shaft Journals, H.P. 8" L.P. Diameter of Pinion Shaft 7"

Diameter of Journals 10" H.P. GEAR Distance between Centres of Bearings 35" H.P. GEAR Diameter of Pitch Circle 4.5" Pinion 7.888 Gear 57.667

Diameter of Wheel Shaft 14" Distance between Centres of Bearings 54 1/2" L.P. PINION 40 1/2" GEAR Diameter of Pitch Circle of Wheel 18.75 Gear 54.75

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

Diameter of Screw Shafts as per rule as fitted Diameter of Propeller Pitch of Propeller

Number of Blades State whether Moveable Total Surface Diameter of Rotor Drum, H.P. L.P. Astern Revs. per Minute at Full Power, Turbine 3380 Propeller 90

## PARTICULARS OF BLADING.

	H. P.			L. P.			ASTERN.		
	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.
EXPANSION	7.571.25"	2' 11 1/2"	2				8.1257.15"	3' 3"	2
"	6.25"	3' 9"	1				3.375"	3' 3"	1
"	1.95"	3' 10 1/2"	1						
"	2.5"	4' 0"	1						
"	6"	4' 2"	1						

and size of Feed pumps

and size of Bilge pumps

and size of Bilge suction in Engine Room

In Holds, &c.

of Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine Room & size

all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible

all connections with the sea direct on the skin of the ship Are they Valves or Cocks

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

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

at pipes are carried through the bunkers How are they protected

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

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

the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

## BOILERS, &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

Greatest 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

Percentages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell

Material 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

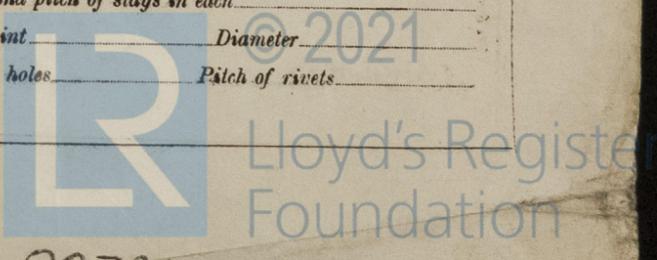
Pitch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and

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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