

REPORT ON MACHINERY.

No. 19673

TUE. 18 JAN. 1921

Date of writing Report *Dec. 13* 19*20* When handed in at Local Office *Dec. 15* 19*20* Port of *New York*
 No. in Survey held at *New York City - New York* Date, First Survey *25 Sep 19* Last Survey *8 Dec 19 20*
 Reg. Book. on the *Machinery for the S. "Hopalong"* (Number of Visits)
 Master *Martin* Built at *Groton, Conn.* By whom built *Groton Iron Works* Tons { Gross *6216*
 Engines made at *New York City - N.Y.* By whom made *Vulcan Iron Works, Inc.* Net *3805*
 Boilers made at *Philmontville, Pa.* By whom made *Heine Patent Locomotive & Boiler Company* when made *1920-12*
 Registered Horse Power *6547* Owners *U.S. Shipping Board* when made *1920-12*
 Shaft Horse Power at Full Power *2800* Is Refrigerating Machinery fitted for cargo purposes *No* Port belonging to *Groton, Conn.*
 Is Electric Light fitted *Yes*

TURBINE ENGINES, &c.—Description of Engines *Parsons Compound Turbines* No. of Turbines *2*
 Diameter of Rotor Shaft Journals, H.P. *4"* L.P. *4"* Diameter of Pinion Shaft *5" (min dia.)*
 Diameter of Journals *5"* Distance between Centres of Bearings *26"* Diameter of Pitch Circle *7 3/4" pin 2 1/4" pin 15 1/4"*
 Diameter of Wheel Shaft *1 3/4"* Distance between Centres of Bearings *42 1/4"* Diameter of Pitch Circle of Wheel *93 1/2"*
 Width of Face *26"* Diameter of Thrust Shaft under Collars *23" Ringed Thrust* Diameter of Tunnel Shaft as per rule *12-96"*
 No. of Screw Shafts *1* Diameter of same as per rule *14-10"* Diameter of Propeller *16-6"* Pitch of Propeller *12-4" Mean*
 No. of Blades *4* State whether Moveable *Yes* Total Surface *81-8 sq ft* Diameter of Rotor Drum, H.P. *16"* L.P. *22"* Astern *21 1/8" Astern*
 Thickness at Bottom of Groove, H.P. *Solid* L.P. *Solid* Astern *Solid* Revs. per Minute at Full Power, Turbine *3600* Propeller *90*

PARTICULARS OF BLADING.

Full Reduction Gear fitted.

	H.P.			L.P.			H.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.	
1ST EXPANSION	<i>5 1/2"</i>	<i>14 1/4"</i>	<i>6</i>	<i>2 1/2"</i>	<i>2-2 1/2"</i>	<i>2</i>	<i>1 1/2"</i>	<i>2-5 3/16"</i>	<i>1</i>	
2ND	<i>1 3/16"</i>	<i>14 5/8"</i>	<i>6</i>	<i>2 13/16"</i>	<i>2-3 5/8"</i>	<i>2</i>	<i>2 5/16"</i>	<i>2-3 15/16"</i>	<i>1</i>	
3RD	<i>1 1/16"</i>	<i>15 1/8"</i>	<i>5</i>	<i>3 1/2"</i>	<i>2-5"</i>	<i>2</i>	<i>3 1/16"</i>	<i>2-4 1/16"</i>	<i>1</i>	
4TH	<i>1 3/8"</i>	<i>15 3/4"</i>	<i>5</i>	<i>4 3/8"</i>	<i>2-6 3/4"</i>	<i>2</i>	<i>L.P. ASTERN</i>			
5TH	<i>1 1/8"</i>	<i>16 1/4"</i>	<i>3</i>	<i>5"</i>	<i>2-8"</i>	<i>1</i>	<i>2 5/8"</i>	<i>2-4"</i>	<i>1</i>	<i>1 1/2" up</i>
6TH	<i>1 7/16"</i>	<i>18 7/8"</i>	<i>3</i>	<i>5"</i>	<i>2-8"</i>	<i>1</i>	<i>2 1/4"</i>	<i>2-5 5/8"</i>	<i>1</i>	<i>2 1/2"</i>
7TH	<i>1 7/8"</i>	<i>19 1/4"</i>	<i>3</i>	<i>5"</i>	<i>2-8"</i>	<i>1</i>	<i>3 7/8"</i>	<i>2-7 1/4"</i>	<i>1</i>	<i>3 1/4"</i>
8TH	<i>2 3/8"</i>	<i>20 3/4"</i>	<i>3</i>	<i>5"</i>	<i>2-8"</i>	<i>1</i>				

No. and size of Feed pumps *2 Vertical Flood Control. 12" x 8" x 24"*
 No. and size of Bilge pumps *3. (1) 12" x 10 1/4" x 12" (1) 6" x 5 3/4" x 6" (1) 12" x 8 1/4" x 12"*
 No. and size of Bilge suction in Engine Room *4. 3 1/2"*
 No. of Bilge Injections *10* sizes *10"* Connected to *circulating pump* Is a separate Donkey Suction fitted in Engine Room & size *Yes. 4"*
 Are all the bilge suction pipes fitted with roses *Yes* Are the roses in Engine room always accessible *Yes*
 Are all connections with the sea direct on the ship of the ship *Yes* Are they Valves or Cocks *Both*
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates *Yes* Are the Discharge Pipes above or below the deep water line *Above*
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel *Yes* Are the Blow Off Cocks fitted with a spigot and brass covering plate *Yes*
 What pipes are carried through the bunkers *None* How are they protected *Yes*
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times *Yes*
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges *Yes*
 Is the Screw Shaft Tunnel watertight *Yes* Is it fitted with a watertight door *Yes* worked from *Top Platform.*

BOILERS, &c.—(Letter for record *2*) Manufacturers of Steel *Midvale Steel & Ordnance Company*
 Total Heating Surface of Boilers *9510 sq ft* Is Forced Draft fitted *Yes* No. and Description of Boilers *3 Water tube Heine Patent*
 Working Pressure *225 lbs* Tested by hydraulic pressure to *450 lbs* Date of test *3/11/20* No. of Certificate *A.B. Certificate*
 Can each boiler be worked separately *Yes* Area of fire grate in each boiler *102 sq ft* No. and Description of Safety Valves *Yes*
 each boiler *2 Spring loaded* Area of each valve *9.62 sq ft* Pressure to which they are adjusted *195 lbs* Are they fitted with easing gear *Yes*
 Smallest distance between boilers or uptakes and bunkers or woodwork *3-0"* Mean dia. of boilers *Length* Material of shell plates *See*
 Thickness *See* Range of tensile strength *See* Are the shell plates welded or flanged *Repaired* Descrip. of riveting: cir. seams *Attached*
 long. seams *See* Diameter of rivet holes in long. seams *See* Pitch of rivets *Attached* Lap of plates or width of butt straps *See*
 Per centages of strength of longitudinal joint *Boiler* Working pressure of shell by rules *built to* Size of manhole in shell *A.B. Survey*
 Size of compensating ring *No. and Description of Furnaces in each Boiler* Material *Outside diameter*
 Length of plain part *top* Thickness of plates *bottom* 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 *End plates in steam space*
 Material of stays *Diameter at smallest part* Area supported by each stay *Working pressure by rules* Material of stays *Material of Front plates at bottom*
 Material *Thickness* Pitch of stays *How are stays secured* Working pressure by rules *Material of Front plates at bottom*
 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 *Mean pitch of stays*
 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 *Lloyd's Register*
 Working pressure of shell by rules *Crown plates: Thickness* How stayed *Foundation*

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Lloyd's Register
Foundation
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Material of Thrust shaft *C. H. Steel* Identification Mark on Do. *1390*

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Subject