

# REPORT ON MACHINERY.

No. 13416

Received at London Office... 23 JAN. 1917

Date 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

No. in Survey held at Schenectady Date, First Survey July 11<sup>th</sup> Last Survey Nov. 29<sup>th</sup> 1916  
 Reg. Book. Shumier & Paddy SS No 2. (Number of Visits 5) Tons { Gross \_\_\_\_\_ Net \_\_\_\_\_

on the \_\_\_\_\_

Master \_\_\_\_\_ Built at \_\_\_\_\_ By whom built Skinner & Eddy Corporation When built \_\_\_\_\_

Engines made at Schenectady By whom made General Electric Company when made \_\_\_\_\_

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, &c.—Description of Engines Geared Turbine No. of Turbines One

Diameter of Rotor Shaft Journals, H.P. 8" L.P. \_\_\_\_\_ Diameter of Pinion Shaft 3 1/2"

Diameter of Journals 6" Distance between Centres of Bearings 32 1/2" Diameter of Pitch Circle 43 pinion 7 1/2" gear 2' 8"

Diameter of Wheel Shaft 1 1/4" Distance between Centres of Bearings 48 3/4" Diameter of Pitch Circle of Wheel 5 pinion 10 1/2" gear 6' 6 1/2"

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 3505 Propeller 100

## 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.
1ST EXPANSION	8' 7 5/8" 1' 3 7/8"	2' 11 1/2"	2				8' 7 5/8" 1' 3 7/8"	3' 3"	2
2ND	6' 2 1/2"	3' 9"	1				3' 3 7/8"	3' 3"	1
3RD	1' 9 1/2"	3' 10 1/2"	1						
4TH	2' 5"	4' 0"	1						
5TH	6"	4' 2"	1						
6TH									
7TH									
8TH									

No. and size of Feed pumps \_\_\_\_\_

No. and size of Bilge pumps \_\_\_\_\_

No. and size of Bilge suction in 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 all connections with the sea direct on the skin of the ship \_\_\_\_\_ Are they Valves or Cocks \_\_\_\_\_

Are they sized 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 \_\_\_\_\_) 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 \_\_\_\_\_ rivets \_\_\_\_\_ Working pressure of shell by rules \_\_\_\_\_ Size of manhole in shell \_\_\_\_\_ plates \_\_\_\_\_

Size of compensating ring \_\_\_\_\_ No. and Description of Furnaces in each Boiler \_\_\_\_\_ Material \_\_\_\_\_ Outside diameter \_\_\_\_\_

Length of plain part \_\_\_\_\_ top \_\_\_\_\_ crown \_\_\_\_\_ Thickness of plates \_\_\_\_\_ Description of longitudinal joint \_\_\_\_\_ No. of strengthening rings \_\_\_\_\_ bottom \_\_\_\_\_

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.* Ty, e ..... 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
1 1/2	10	
2	15	
2 1/2	20	
3	25	
3 1/2	30	
4	35	
4 1/2	40	
5	45	
5 1/2	50	
6	55	
6 1/2	60	
7	65	
7 1/2	70	
8	75	
8 1/2	80	
9	85	
9 1/2	90	
10	95	
10 1/2	100	
11	105	
11 1/2	110	
12	115	
12 1/2	120	
13	125	
13 1/2	130	
14	135	
14 1/2	140	
15	145	
15 1/2	150	
16	155	
16 1/2	160	
17	165	
17 1/2	170	
18	175	
18 1/2	180	
19	185	
19 1/2	190	
20	195	
20 1/2	200	
21	205	
21 1/2	210	
22	215	
22 1/2	220	
23	225	
23 1/2	230	
24	235	
24 1/2	240	
25	245	
25 1/2	250	
26	255	
26 1/2	260	
27	265	
27 1/2	270	
28	275	
28 1/2	280	
29	285	
29 1/2	290	
30	295	
30 1/2	300	
31	305	
31 1/2	310	
32	315	
32 1/2	320	
33	325	
33 1/2	330	
34	335	
34 1/2	340	
35	345	
35 1/2	350	
36	355	
36 1/2	360	
37	365	
37 1/2	370	
38	375	
38 1/2	380	
39	385	
39 1/2	390	
40	395	
40 1/2	400	
41	405	
41 1/2	410	
42	415	
42 1/2	420	
43	425	
43 1/2	430	
44	435	
44 1/2	440	
45	445	
45 1/2	450	
46	455	
46 1/2	460	
47	465	
47 1/2	470	
48	475	
48 1/2	480	
49	485	
49 1/2	490	
50	495	
50 1/2	500	
51	505	
51 1/2	510	
52	515	
52 1/2	520	
53	525	
53 1/2	530	
54	535	
54 1/2	540	
55	545	
55 1/2	550	
56	555	
56 1/2	560	
57	565	
57 1/2	570	
58	575	
58 1/2	580	
59	585	
59 1/2	590	
60	595	
60 1/2	600	
61	605	
61 1/2	610	
62	615	
62 1/2	620	
63	625	
63 1/2	630	
64	635	
64 1/2	640	
65	645	
65 1/2	650	
66	655	
66 1/2	660	
67		

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. Dickinson* Manufacturer.  
for General Electric Co

Dates of Survey while building	During progress of work in shops --	July 11. 25. Aug 17. 21. Oct. 9 Nov. 29.
	During erection on board vessel ---	
	Total No. of visits	5
	Is the approved plan of main boiler forwarded herewith	

Dates of Examination of principal parts—Casings Aug 17. Rotors Aug 21. Blading Aug 21. Gearing OK 9"

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

*\$10.93.*

Committee's Minute New York JAN 11 1917

Assigned See Seattle Rpt No 4/1.

*R. Salma for J. H. and A. W. Murray.*  
Engineer Surveyor to Lloyd's Register of Shipping.



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Foundation