

# REPORT ON MACHINERY.

No. 129

REC'D NEW YORK June 12-1918

Received at London Office

CLEVELAND, OHIO.

Survey held at *Willsville N.Y.*

Date, First Survey *22. May 1917* Last Survey

19

on the *for Ship ~~H. S.~~ (Cr. 4 "Hart Indian")*

(Number of Visits)

Tons <sup>Gross</sup>  
<sub>Net</sub>

Built at

By whom built *Columbia River Ship Co.* When built

made at *Willsville N.Y.*

By whom made

*Kerr Turbine Co. (No. 50001-3)*

when made *1917.*

made at

By whom made

when made

ed Horse Power *417*

Owners

Port belonging to

orse Power at Full Power *2500*

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

NE ENGINES, &c.—Description of Engines

*Centrifugal Rotary Double Expansion Turbine* No. of Turbines *One*

of Rotor Shaft Journals, H.P. *4.992* L.P. *—*

Diameter of Pinion Shaft *High Speed 5.992. Low Speed 9.487*

of Journals *45.592.45.9.487*

Distance between Centres of Bearings *45.37 1/2 45.62*

Diameter of Pitch Circle *45.7.402 45.9.989*

Wheel Shaft *14. Minimum*

Distance between Centres of Bearings *Low Speed 65 1/2*

Diameter of Pitch Circle of Wheel *45.55.54 45.52.99*

One Wheel *45. This Wheel*

ace *16. Each 19*

Diameter of Thrust Shaft under Collars

Diameter of Tunnel Shaft as per rule

Shafts *One*

Diameter of same

as per rule

Diameter of Propeller

Pitch of Propeller

State whether Moveable

Total Surface

Diameter of Rotor *2.500*

H.P. *3 1/2* L.P. *—*

astern *3 1/2*

Bottom of Groove, H.P. *—*

L.P. *—*

Astern *—*

Revs. per Minute at Full Power, Turbine *3600*

Propeller *90*

## ULARS 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.
ION	6' x 1"	33 1/2"	2	✓	—	—	6' x 1"	33 1/2"	2
	6' x 1"	33 1/2"	2	✓	—	—	3'	35 7/8"	1
	2'	35 7/8"	1						
	3'	35 7/8"	1						
	4'	35 7/8"	1						
	5'	36 7/8"	1						
	6'	38 1/2"	1						
	6 7/8"	38 1/2"	1						

of Feed pumps

of Bilge pumps

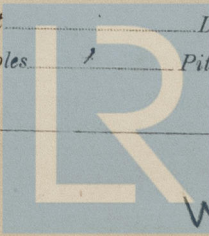
Do. 3 of Bilge suction in Engine Room

In Holds, &c.

injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine Room & size  
ge suction pipes fitted with roses Are the roses in Engine room always accessible  
tions with the sea direct on the skin of the ship Are they Valves or Cocks  
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  
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  
carried through the bunkers How are they protected  
Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times.  
uction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges.  
raft Tunnel watertight Is it fitted with a watertight door worked from

&c.—(Letter for record) Manufacturers of Steel

Surface of Boilers Is Forced Draft fitted No. and Description of Boilers  
ssure Tested by hydraulic pressure to Date of test No. of Certificate  
be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to  
Area of each valve Pressure to which they are adjusted Are they fitted with easing gear  
e between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates  
Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams  
Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps  
rivets  
length of longitudinal joint Working pressure of shell by rules Size of manhole in shell  
plates  
ring No. and Description of Furnaces in each Boiler Material Outside diameter  
top crown  
part bottom Thickness of plates Description of longitudinal joint No. of strengthening rings  
bottom  
e of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom  
ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules  
Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space  
Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays  
est part Area supported by each stay Working pressure by rules Material of Front plates at bottom  
Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules  
Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays  
water spaces Working pressures by rules Girders to Chamber tops: Material Depth and  
at centre Length as per rule Distance apart Number and pitch of stays in each  
by rules Steam dome: description of joint to shell % of strength of joint Diameter  
plates Material Description of longitudinal joint Diameter of rivet holes Pitch of rivets  
of shell by rules Crown plates: Thickness How stayed



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Lloyd's Register  
W1462 0034



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? \_\_\_\_\_

SPARE GEAR. State the articles supplied:— \_\_\_\_\_

The foregoing is a correct description,  
Kerr Turbine *H. J. Hargrave* Manufacturer.  
Wellsville N.Y. Conn. E.

Dates of Survey while building { During progress of work in shops --- } 1917. May 22. June 8. July 6-26 Aug 22. Sep 21. Oct 11. Nov 8.  
{ During erection on board vessel --- }  
Total No. of visits \_\_\_\_\_

Is the approved plan of main boiler forwarded herewith \_\_\_\_\_

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