

REPORT ON MACHINERY.

No. 726.

TUE. 22 APR. 1919

NEW YORK *March 19 1919* Received at London Office
 of writing Report *March 19 1919* When handed in at Local Office *March 18 1919* Port of *Vancouver, B.C.*
 in Survey held at *Vancouver, B.C.* Date, First Survey *April 1 1918*, Last Survey *March 15 1919*
 g. Book. on the *Steel Single Screw Steamer "War Noble"* (Number of Visits *3*)
 Master *Alexander Kane*, Built at *Vancouver, B.C.* By whom built *J. Coughlan & Son* Tons { Gross *544.12*
 Engines made at *Wellesville, V.Y.* By whom made *Herri Turbine Co. No. 50012*, when made *1918*, Net *416.58*
 Makers made at *Vancouver, B.C.* By whom made *Vulcan Iron Works Ltd.* when made *1918*,
 Registered Horse Power *2650*. Owners *The Shipping Controller* Port belonging to *London*,
 m. Horse Power as per Section 28 *576.6* Is Refrigerating Machinery fitted for cargo purposes *No* Is Electric Light fitted *Yes*

GINES, &c.—Description of Engines *Centrifugal Double Reduction Gear*, No. of Cylinders *Turbine* No. of Cranks
 a. of Cylinders *✓* Length of Stroke *✓* Revs. per minute *100* Dia. of Screw shaft *13.86* as per rule *13.4* Material of *Steel*
 the screw shaft fitted with a continuous liner the whole length of the stern tube *Yes* Is the after end of the liner made water tight
 the propeller boss *Yes* If the liner is in more than one length are the joints burned *Yes* If the liner does not fit tightly at the part
 between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive *✓* If two
 liners are fitted, is the shaft lapped or protected between the liners *✓* Length of stern bush *4.3*
 Dia. of Tunnel shaft *12.28* as per rule *12.916* Dia. of Crank shaft journals *12.916* as per rule *12.916* Dia. of Crank pin *12.916* Size of Crank webs *12.916* Dia. of thrust shaft *12.916*
 Collars *13.4* Dia. of screw *13.0* Pitch of Screw *12.0* No. of Blades *4* State whether moveable *Yes* Total surface *81 Sq. Feet*
 No. of Feed pumps *2* Diameter of ditto *8* Stroke *16* Can one be overhauled while the other is at work *Yes*
 No. of Bilge pumps *2* Diameter of ditto *8* Stroke *12* Can one be overhauled while the other is at work *Yes*
 No. of Donkey Engines *one* Sizes of Pumps *12 x 12 x 12 Duplex* No. and size of Suctions connected to both Bilge and Donkey pumps
 n Engine Room *4 of 3.5" Diam.* In Holds, &c. *2 in each Hold 3.5" Diam.*
Ten in all.

No. of Bilge Injections *1* sizes *10* Connected to condenser, or to circulating pump *Pump* Is a separate Donkey Suction fitted in Engine room & size *Yes 20.3*
 Are all the bilge suction pipes fitted with roses *Yes* Are the roses in Engine room always accessible *Yes* Are the sluices on Engine room bulkheads always accessible *Yes*
 Are all connections with the sea direct on the skin 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 *Below*
 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 *✓*

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 *Upper Deck*

BOILERS, &c.—(Letter for record *S*) Manufacturers of Steel *Illinois Steel Co.*
 Total Heating Surface of Boilers *8008* Is Forced Draft fitted *Yes* No. and Description of Boilers *3 Single Ended Scotch Marine*
 Working Pressure *190 lb.* Tested by hydraulic pressure to *300 lb.* Date of test *Nov. 31/18* No. of Certificate *4*

Can each boiler be worked separately *Yes* Area of fire grate in each boiler *6.3 Sq. Feet* No. and Description of Safety Valves to
 each boiler *2 of Crosby Marine type* Area of each valve *9.06* Pressure to which they are adjusted *190 lb.* Are they fitted with easing gear *Yes*
 Smallest distance between boilers or uptakes and bunkers or woodwork *18* Mean dia. of boilers *14.9 1/2* Length *11.5 1/2* Material of shell plates *Steel*
 Thickness *1 7/16* Range of tensile strength *60,000* Are the shell plates welded or flanged *Neither* Descrip. of riveting: cir. seams *Double Riv. Lap*
 long. seams *Triple Riv. But* Diameter of rivet holes in long. seams *1 7/16* Pitch of rivets *8.60* Lap of plates or width of butt straps *22 1/2 x 14 1/2*

Per centages of strength of longitudinal joint *83.29* Working pressure of shell by rules *208.9* Size of manhole in shell *12" x 16"*
 Size of compensating ring *8 1/2* No. and Description of Furnaces in each boiler *3 Morrison* Material *Steel* Outside diameter *48 7/16*
 Length of plain part *8 1/2* Thickness of plates *8 1/2* Description of longitudinal joint *✓* No. of strengthening rings *✓*

Working pressure of furnace by the rules *1959* Combustion chamber plates: Material *Steel* Thickness: Sides *9/16* Back *9/16* Top *9/16* Bottom *7/8*
 Pitch of stays to ditto: Sides *10 7/32* Back *7 1/2* Top *7 1/2* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *1940*

Material of stays *Steel* Area at smallest part *2.04* Area supported by each stay *4.9* Working pressure by rules *253.4* End plates in steam space:
 Material *Steel* Thickness *1 7/16* Pitch of stays *16 1/4* How are stays secured *Nuts* Working pressure by rules *193.8* Material of stays *Steel*
 Area at smallest part *4.9* Area supported by each stay *20.4* Working pressure by rules *193* Material of Front plates at bottom *Steel*

Thickness *3/4* Material of Lower back plate *Steel* Thickness *3/4* Greatest pitch of stays *7 7/32* Working pressure of plate by rules *212.8*
 Diameter of tubes *3* Pitch of tubes *4 1/2* Material of tube plates *Steel* Thickness: Front *3/4* Back *3/4* Mean pitch of stays *7 7/32*

Pitch across wide water spaces *13* Working pressures by rules *204 lb.* Girders to Chamber tops: Material *Steel* Depth and
 thickness of girder at centre *10" x 3 1/4* Length as per rule *3-0* Distance apart *7 1/2* Number and pitch of stays in each *30 of 7 1/2*

Working pressure by rules *236* Steam dome: description of joint to shell *✓* % of strength of joint *✓*
 Diameter *✓* Thickness of shell plates *✓* Material *✓* Description of longitudinal joint *✓* Diam. of rivet holes *✓*

Pitch of rivets *✓* Working pressure of shell by rules *✓* Crown plates *✓* Thickness *✓* How stayed *✓*
 SUPERHEATER. Type *Goster* Date of Approval of Plan *✓* Tested by Hydraulic Pressure to *630 lb.*

Date of Test *✓* Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler *Yes*
 Diameter of Safety Valve *1 1/2* Section *✓* Pressure to which each is adjusted *210 lb.* Is Easing Gear fitted *Yes*

w149-0035

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

Turbine: 1 Thrust Bearing complete, 2 Slide & Nut for Rotor Bearing, 2 Slide & Nut for Main Turbine, 2 Slide & Nut for Main Gear Bearing, 3 Slide & Nut for Pinion Bearing, one set of coupling Bolts each size 1/2" Bolt casing Joint, 120 Bolts Turbine Joint, 2 Thermometers for oil cooling system, 1 Set of Bearing Bushes for 1 Gear Wheel, 1 Set of Bearing Bushes for Pinion, 1 Set of Bearing Bushes for Rotor Bearing, 1 Set of Rotor Packing Glands, 1 Set of Pads for King & Berry Thrust, 1 Set of feed Pump Valves, 1 Set of Bilge Pump Valves, 1 Bucket & Rod for Lubricating Pumps, Assorted Bolts & Nuts, Steel Bars, Plates, Spare Propeller Blade, Spare Tail Shaft, Spare Bolt Tubes, Set of Spare Check Valves, Spare Safety Valve Spring, Spare Superheater, Coils Spare Condenser Tubes, 4 ferrules, Spare Shaft & Runner for Circ. Pump, Spare Nozzles for Radiators.

The foregoing is a correct description,

J. J. Bingham & Sons Manufacturer.

Dates of Survey while building: During progress of work in shops -- Sept. 24/18, Nov. 18/18, Nov. 21/18. During erection on board vessel -- 1/4/18, 10/4/18, 15/4/18, 23/4/18, 30/4/18, 1/5/18, 9/5/18, 16/5/18, 23/5/18, 30/5/18, 6/6/18, 13/6/18, 20/6/18, 27/6/18, 4/7/18, 11/7/18, 18/7/18, 25/7/18, 1/8/18, 8/8/18, 15/8/18, 22/8/18, 29/8/18, 5/9/18, 12/9/18, 19/9/18, 26/9/18, 3/10/18, 10/10/18, 17/10/18, 24/10/18, 31/10/18, 7/11/18, 14/11/18, 21/11/18, 28/11/18, 5/12/18, 12/12/18, 19/12/18, 26/12/18, 2/1/19, 9/1/19, 16/1/19, 23/1/19, 30/1/19, 6/2/19, 13/2/19, 20/2/19, 27/2/19, 6/3/19, 13/3/19, 20/3/19, 27/3/19, 3/4/19, 10/4/19, 17/4/19, 24/4/19, 1/5/19, 8/5/19, 15/5/19, 22/5/19, 29/5/19, 5/6/19, 12/6/19, 19/6/19, 26/6/19, 3/7/19, 10/7/19, 17/7/19, 24/7/19, 31/7/19, 7/8/19, 14/8/19, 21/8/19, 28/8/19, 4/9/19, 11/9/19, 18/9/19, 25/9/19, 2/10/19, 9/10/19, 16/10/19, 23/10/19, 30/10/19, 6/11/19, 13/11/19, 20/11/19, 27/11/19, 4/12/19, 11/12/19, 18/12/19, 25/12/19, 1/1/20, 8/1/20, 15/1/20, 22/1/20, 29/1/20, 5/2/20, 12/2/20, 19/2/20, 26/2/20, 5/3/20, 12/3/20, 19/3/20, 26/3/20, 2/4/20, 9/4/20, 16/4/20, 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