

REPORT ON MACHINERY.

No. 41

REC'D NEW YORK May 13-1918

Received at London Office

Survey held at Toronto Date, First Survey Aug 27/17 Last Survey 19

Survey Report May 23 1918 When handled in at Local Office May 29 1918 Port of Toronto

On the S M B. R. N. 4 "Wai Babine" Tonnage { Gross 2341.81 Net 1417.81

Built at Victoria B.C. By whom built Foundation Co. When built 1918

Made at Toronto By whom made Polson Iron Works when made 1918

Made at Toronto By whom made Polson Iron Works when made 1918

Horse Power 1400 Owners Easton Greig & Co (Glasgow) Port belonging to Victoria

Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted yes

Is Power as per Section 28 313.6

ES, &c.—Description of Engines Inverted Triple Expansion No. of Cylinders 3 No. of Cranks 3

Cylinders 20 1/2 x 33 x 5 1/2 Length of Stroke 36 Revs. per minute 8 1/2 Dia. of Screw shaft 11 1/4 Material of screw shaft as per rule 11 1/4 as fitted 11 1/5 OK Steel

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

Propeller boss If the liner is in more than one length are the joints burned yes If the liner does not fit tightly at the part

The bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive yes If two

Is fitted, is the shaft lapped or protected between the liners yes Length of stern bush 3'-10"

Shaft as per rule 10 3/4 Dia. of Crank shaft journals as per rule 10 3/4 Dia. of Crank pin 11 Size of Crank webs 8" x 20 Dia. of thrust shaft under

Shaft as fitted 10 3/4 Dia. of screw 14'-0" Pitch of Screw 14'-0" No. of Blades 4 State whether moveable Solid Total surface 64 ft

Feed pumps 2 Diameter of ditto 10" x 5" Stroke 12 Can one be overhauled while the other is at work

Bilge pumps 2 Diameter of ditto 8" x 5" Stroke 12 Can one be overhauled while the other is at work

Donkey Engines 2 Sizes of Pumps 1/2 HP No. and size of Suctions connected to both Bilge and Donkey pumps

In Holds, &c. 1/2 HP

Bilge Injections 2 sizes 1/2 HP Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size

The bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible

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

Mark on Do. 13-5-18 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

Marks on Do. 16-5-18 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

Pipes are carried through the bunkers How are they protected

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

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

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

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

Heating Surface of Boilers 5280 sq ft Is Forced Draft fitted yes No. and Description of Boilers 2 Howden

Pressure 185 lbs Tested by hydraulic pressure to Date of test No. of Certificate

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

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

Working pressure of shell by rules Size of manhole in shell

No. and Description of Furnaces in each boiler Material Outside diameter

Thickenss of plates Description of longitudinal joint No. of strengthening rings

Combustion chamber plates: Material Thickenss: Sides Back Top Bottom

Working pressure by rules End plates in steam space:

Area at smallest part Area supported by each stay Working pressure by rules Material of stays

Pitch of stays How are stays secured Working pressure by rules Material of Front plates at bottom

Area supported by each stay Working pressure of plate by rules

Material of Lower back plate Thickenss Greatest pitch of stays Working pressure of plate by rules

Pitch of tubes Material of tube plates Thickenss: Front Back Mean pitch of stays

Working pressures by rules Girders to Chamber tops: Material Depth and

Distance apart Number and pitch of stays in each

% of strength of joint

Steam dome: description of joint to shell

Thickenss of shell plates Material Description of longitudinal joint Diam. of rivet holes

Working pressure of shell by rules Crown plates Thickenss How stayed

Date of Approval of Plan Tested by Hydraulic Pressure to

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Pressure to which each is adjusted Is Easing Gear fitted

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IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— 2 connecting rod top end bolts + nuts
2 connecting rod bottom end bolts + nuts. 2 Main bearing
bolts + nuts. 1 Set coupling bolts + nuts. 1 Set feed pump
valves. 1 Set bilge pump valves. 1 Set piston springs
2 Iron rods of each size $\frac{1}{2}$ "- $\frac{3}{8}$ "- $\frac{3}{4}$ "- $\frac{7}{8}$ "-1"-1 $\frac{1}{8}$ " all 10 ft long
50 Assorted bolts + nuts 1 Propeller.

The foregoing is a correct description,

POLSON IRON WORKS LIMITED

A. J. W. 21-1-19

Manufacturer.

Dates of Survey while building { During progress of work in shops - - -
During erection on board vessel - - -
Total No. of visits

Aug. 27. Sept. 10. 21. 24. 27 Oct. 22. 26. Nov. 9. 14. 20. 28. Dec. 5. 7. 12. 17. 21. 26.
Jan. 4. 5. 15. 17. 19. 31. Feb. 6. 8. 9. 14. 16. 22. 25. Mar. 5. 9. 19. 23. 25. April 11. 15. 25. May 1. 4. 13. 16. 29

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 15. 4. 18 Slides 1. 5. 18 Covers 15- 4- 18 Pistons 1. 5. 18 Rods 1. 5. 18
Connecting rods 1. 5. 18 Crank shaft 13. 5. 18 Thrust shaft 13. 5. 18 Tunnel shafts 1. 5. 18 Screw shaft 16. 5. 18 Propeller 16. 5. 18

Stern tube 21. 12. 18 Steam pipes tested Engine and boiler seatings Engines holding down bolts

Completion of pumping arrangements Boilers fixed Engines tried under steam

Completion of fitting sea connections Stern tube Screw shaft and propeller

Main boiler safety valves adjusted Thickness of adjusting washers

Material of Crank shaft 0.4 Steel Identification Mark on Do. 342. 13. 5. 18 Material of Thrust shaft 0.4 Steel Identification Mark on Do. 343. 13. 5. 18

Material of Tunnel shafts 0.4 Steel Identification Marks on Do. 335. 1. 5. 18 Material of Screw shafts 0.4 Steel Identification Marks on Do. 344. 16. 5. 18

Material of Steam Pipes Test pressure

Is an installation fitted for burning oil fuel Is the flash point of the oil to be used over 150°F.

Have the requirements of Section 49 of the Rules been complied with

Is this machinery duplicate of a previous case If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c. This machinery has been
constructed under Special Survey. It is of good
material + workmanship and is eligible in our
opinion for record with date when the
survey is completed. It has now been shipped
to Vancouver to be fitted in a wooden vessel

To complete the survey:— Engines to be fitted and
secured on board with auxiliaries + connections
according to the Rules

Transmit to Vancouver for completion

The amount of Entry Fee ... \$ 15 : 00 :
Special ... \$ 59 : 50 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for, May 28 1918
When received, 28/6/19

Robert E. Blyth & John W. Lyne
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

TUE. 10 DEC. 1918

TUE. 10 MAR. 1919

TUE. 22 JUL. 1919

FRI. AUG. 20 1919

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